



Mr. Lewis Pillis Department of Environmental Quality Blue Ridge Regional Office 3019 Suite C, Peters Creek Road Roanoke, VA 24019

Date: June 3, 2016

Subject: VPDES Permit Renewal Package

VPDES # VA0090671

Dear Mr. Pillis,

Enclosed please find the following documents for the VPDES Permit Renewal for the Lower Jackson River Regional WWTP, VA009061:

- Form 2A
- Form 2F
- VPDES Permit Application Addendum
- VPDES Sewage Sludge Permit Application
- Public Notice Billing Form

Attachment A analysis information is not currently available. It is anticipated that these results will be received in approximately three weeks. As soon as the results are received they will be submitted to you for review.

If you have any questions or comments, please feel free to contact me at (540) 862-5138.

Sincerely.

Brian T. White,

Plant Manager, Lower Jackson River Regional WWTP

Cc: Gary Hepler, Assistant County Public Works Director

File

Lower Jackson River Regional WWTP - VA0090671

FORM

2A NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. Basic Application Information for all Applicants. All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd. All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. Certification. All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. Expanded Effluent Testing Data. A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. Toxicity Testing Data. A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. Industrial User Discharges and RCRA/CERCLA Wastes. A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. Combined Sewer Systems. A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

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PAR	T A. BASIC APPL	ICATION INF	ORMATION FOR A	LL APPLICANTS:	
All ti	eatment works mus	t complete que	stions A.1 through A.	8 of this Basic Application Information	packet.
A.1.	Facility Information	1.			
	Facility name	Lower Jacks	on River Regional W	WTP	
	Mailing Address	9212 Winterb			
		Covington, V	irginia 24426		
	Contact person	Mr. Gary Her	oler		
	Title	Assistant Dir	ector, Public Works		
	Telephone number	(540) 863-66	50		
	Facility Address	50 Fork Farm	Road		
	(not P.O. Box)	Eagle Rock,			
A.2 .	Applicant Informati	on. If the applic	ant is different from the	e above, provide the following:	
	Applicant name	Environmenta	al Systems Service,	LTD.	
	Mailing Address	50 Eork Farm	Road		
			Virginia 24085		
	Contact person	Brian White			
	Title	Plant Manage	er		
	Telephone number	(540) 862-513	38		
	Is the applicant the	owner or opera	ator (or both) of the tr	eatment works?	
	owner		_ operator		
		respondence reg		uld be directed to the facility or the application	ant.
	facility		_ applicant		
۱.3.	Existing Environme works (include state-	ental Permits. Fissued permits).	Provide the permit number	per of any existing environmental permits	s that have been issued to the treatment
	NPDES VA00906	71		PSD	
	UIC				
	DODA.			O4h	
.4.	Collection System I each entity and, if kn etc.).	nformation. Proown, provide info	ovide information on m ormation on the type of	unicipalities and areas served by the faci collection system (combined vs. separat	lity. Provide the name and population of e) and its ownership (municipal, private,
	Name		Population Served	Type of Collection System	Ownership
	Clifton Forge		4200	Seperate	Municipal
	Selma		485	Seperate	Municipal
	Iron Gate/Wesgate	<u> </u>	700	seperate	Municipal
	Total pop	ulation served	5385		

FACILITY NAME AND PERMIT NUMBER: Lower Jackson River Regional WWTP - VA0090671 Form Approved 1/14/99 OMB Number 2040-0086

A.5.	Inc	dian Country.	
	a.	Is the treatment works located in Indian Country?	
		Yes	
	b.	Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually through) Indian Country?	flows
		Yes	
A.6.	av	ow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also proverage daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month with the 12th month of "this year" occurring no more than three months prior to this application submittal.	
	a.	Design flow rate2.6 mgd	
		Two Years Ago Last Year This Year	
	b.	Annual average daily flow rate 1.060 0.903 1.010	mgd
	C.	Maximum daily flow rate 4.875 3.440 4.772	mgd
A.7.		Dilection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the intribution (by miles) of each.	percent
		✓ Separate sanitary sewer 100	%
			%
A.8.	Dis	scharges and Other Disposal Methods.	
	a.	Does the treatment works discharge effluent to waters of the U.S.? Yes	No
		If yes, list how many of each of the following types of discharge points the treatment works uses:	
		L Discharges of treated effluent 1	
		ii. Discharges of untreated or partially treated effluent	
		iii. Combined sewer overflow points	
		iv. Constructed emergency overflows (prior to the headworks)	<u></u>
		v. Other	
	b.		No
		If yes, provide the following for each surface impoundment:	
		Location:	
		Annual average daily volume discharged to surface impoundment(s) mgd	
		Is discharge continuous or intermittent?	
	C.	Does the treatment works land-apply treated wastewater?	No
		If yes, provide the following for each land application site:	
		Location:	
		Number of acres:	
		Annual average daily volume applied to site: Mgd	
		Is land application continuous or intermittent?	
	d.	The state of the s	Vo

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Form Approved 1/14/99 OMB Number 2040-0086

If transport is by a party	other than the a	applicant, pro	vide:				
Transporter name:							
Mailing Address:							

Contact person:							
Title:					·		
Telephone number:						···	
Name: Mailing Address:							
			· · · · · · · · · · · · · · · · · · ·				
Manny / Adroso.							
Contact person:							
Contact person:							
Title:	DES permit nur	mber of the tr	eatment works	that receives this disc	harge.		
Title: Telephone number:					harge.		mg
Title: Telephone number: If known, provide the NR	ly flow rate from	the treatmer	at works into the	receiving facility.		Yes	mg
Title: Telephone number: If known, provide the NF Provide the average dai	ly flow rate from ks discharge or c ve (e.g., undergr	the treatmer dispose of its round percola	at works into the wastewater in ation, well injec	receiving facility.		Yes	mg
Title: Telephone number: If known, provide the NF Provide the average dai Does the treatment work A.8.a through A.8.d abo	ly flow rate from ks discharge or ove (e.g., undergr ring <u>for each disc</u>	the treatmer dispose of its round percola posal method	wastewater in ation, well inject	receiving facility. a manner not included ion)?		Yes	
Title: Telephone number: If known, provide the NF Provide the average dai Does the treatment work A.8.a through A.8.d about yes, provide the follow	ly flow rate from ks discharge or ove (e.g., undergr ring for each disc ncluding location	the treatmer dispose of its round percola posal method and size of	wastewater in ation, well inject	receiving facility. a manner not included ion)?		Yes	

Form Approved 1/14/99 OMB Number 2040-0086

FACILITY NAME AND PERMIT NUMBER:

Lower Jackson River Regional WWTP - VA0090671

WASTEWATER DISCHARGES:

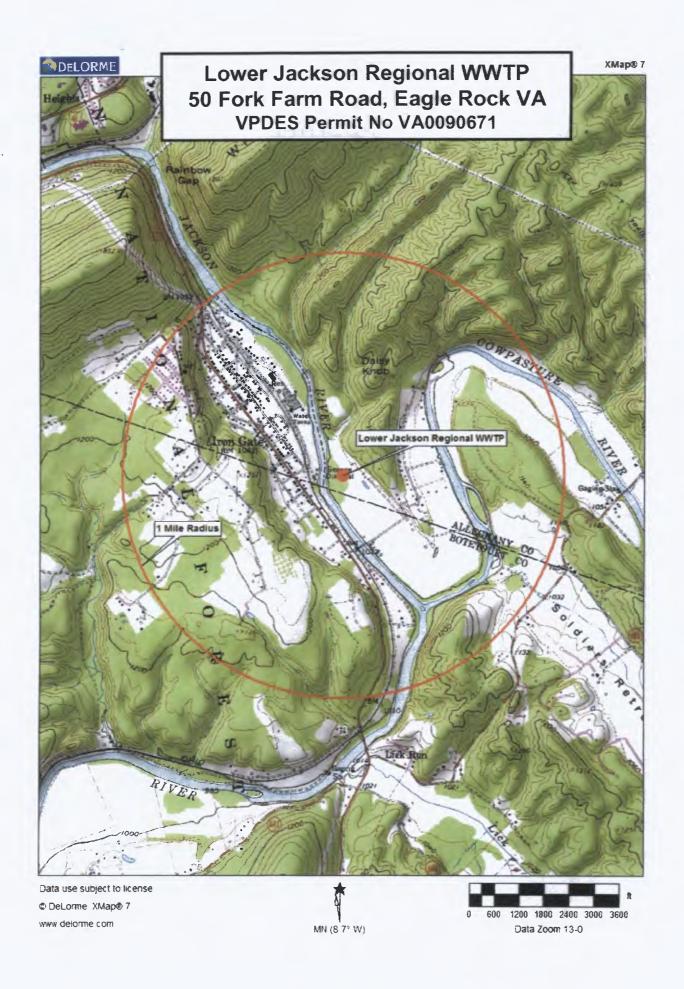
If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

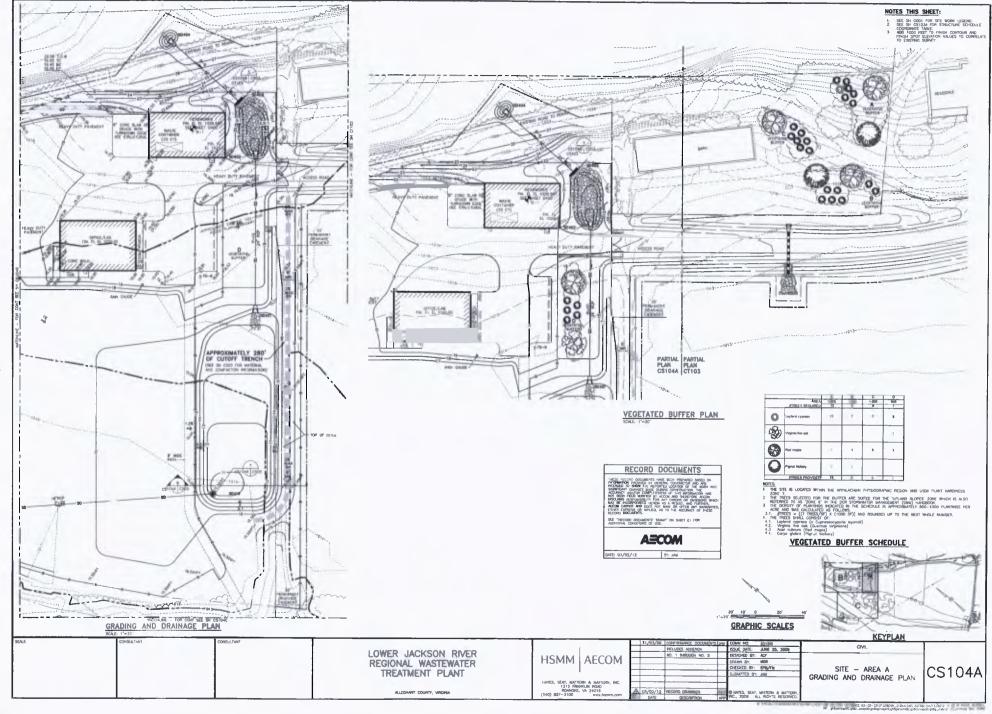
	De	scription of Outfall.			
	a-	Outfall number	.001	_	
	b.	Location	Iron Gate (City or town, if applicable) Alleghany		24448 (Zip Code) Virginia
			(County) 37 deg. 47 min. 32 sec.		(State) 79 deg. 47 min. 4 sec.
			(Latitude)		(Longitude)
	C.	Distance from shore	(if applicable)	N/A ft.	
	d.	Depth below surface	(if applicable)	N/A ft.	
	e.	Average daily flow ra	ite	1.0 mg	gd
	f.	Does this outfall have periodic discharge?	e either an intermittent or a	Yes	No (go to A.9.g.)
		If yes, provide the fol	llowing information:		(3-1-1-1-1)
		Number of times per	year discharge occurs:		
		Average duration of e	each discharge:		
		Average flow per disc	charge:		mgd
		Months in which disc	harge occurs:		
	_				/
	g.	Is outfall equipped wi	ith a diffuser?	Yes	No No
		is outfall equipped wi		Yes	▼ No
10.			g Waters.	Yes	No No
10.	De	scription of Receivin	g Waters. ater Jackson River	Yes	No No
10.	Des	scription of Receivin Name of receiving wa	g Waters. ater Jackson River	nknown	▼ No unknown
.10.	De:	Name of receiving was Name of watershed (g Waters. ater Jackson River if known) <u>u</u>	nknown	unknown
.10.	De:	Name of receiving was Name of watershed (United States Soil Co	g Waters. ater Jackson River if known) <u>u</u> onservation Service 14-digit waters	nknown shed code (if known): Upper James F	unknown
.10.	Des	Name of receiving was Name of watershed (United States Soil Co Name of State Manag United States Geolog Critical low flow of rec	g Waters. ater Jackson River if known) <u>u</u> onservation Service 14-digit waters gement/River Basin (if known):	nknown shed code (if known): Upper James F	unknown River 02080201

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	escription of Tr												
a.	What levels of		are provi	ded? C			•						
		rimary dvanced					dary						
				-			Describe:						
Ь.	Indicate the fo	llowing rem	noval rate	es (as a	ipplicable):								
	Design BOD _s	removal <u>or</u>	Design C	CBOD ₅	removal			85			%		
	Design SS rer	moval						85			%		
	Design P rem	oval						93			%		
	Design N rem	oval						69			%		
	Other										%		
C	What type of o	lisinfection	is used fo	– or the e	effluent from	m thi	s outfall? If dis	infection varie	es by seaso	מ חב	lease describe	e.	
	Ultraviolet d									۷,, ۳		·	
				dooblo	rination 110	and do	and thin and the U.O.			····			NI-
	If disinfection	-				eu ic	or this outrain?			_ Ye	·		No
d.	Does the treat	ment plant	have pos	st aerat	tion?					Ye	es _		No
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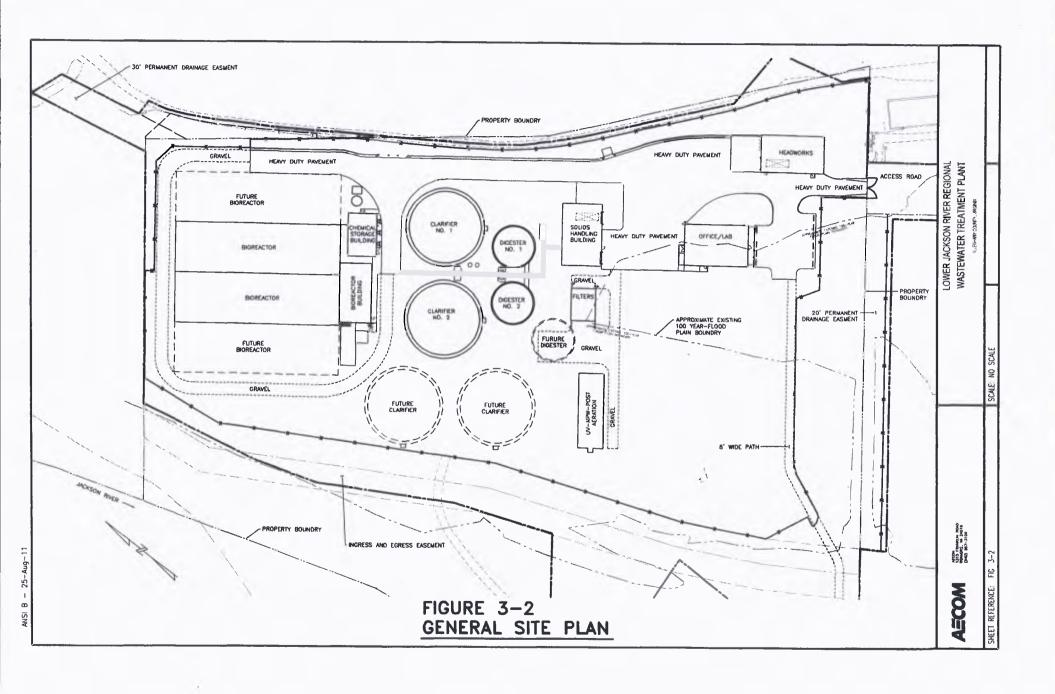
2A YOU MUST COMPLETE

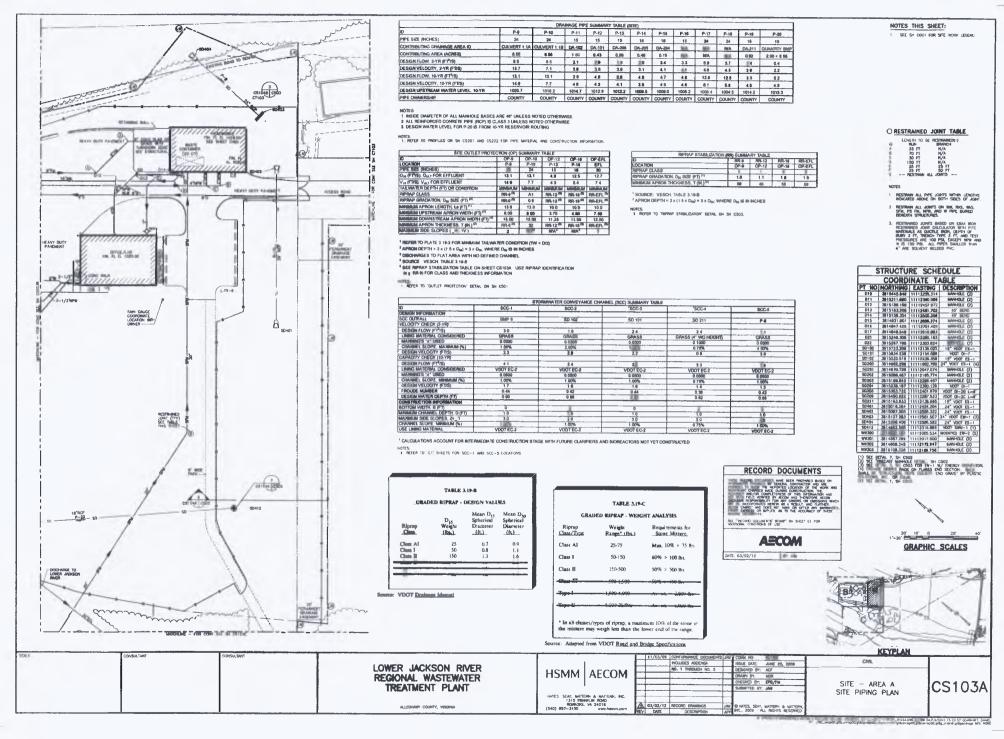


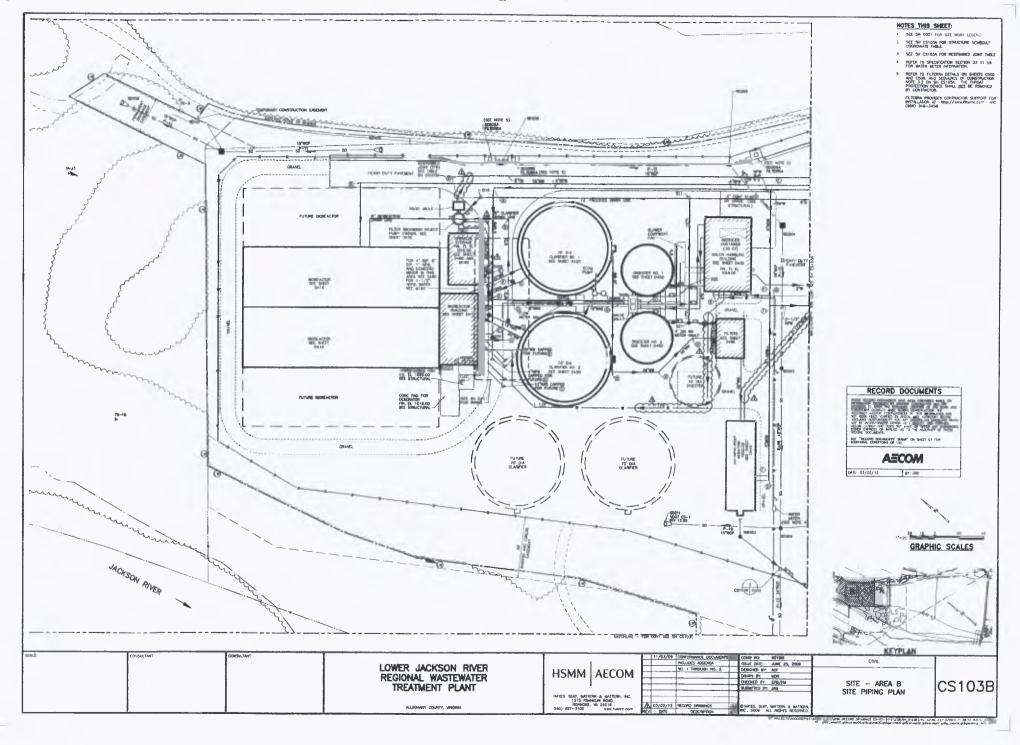


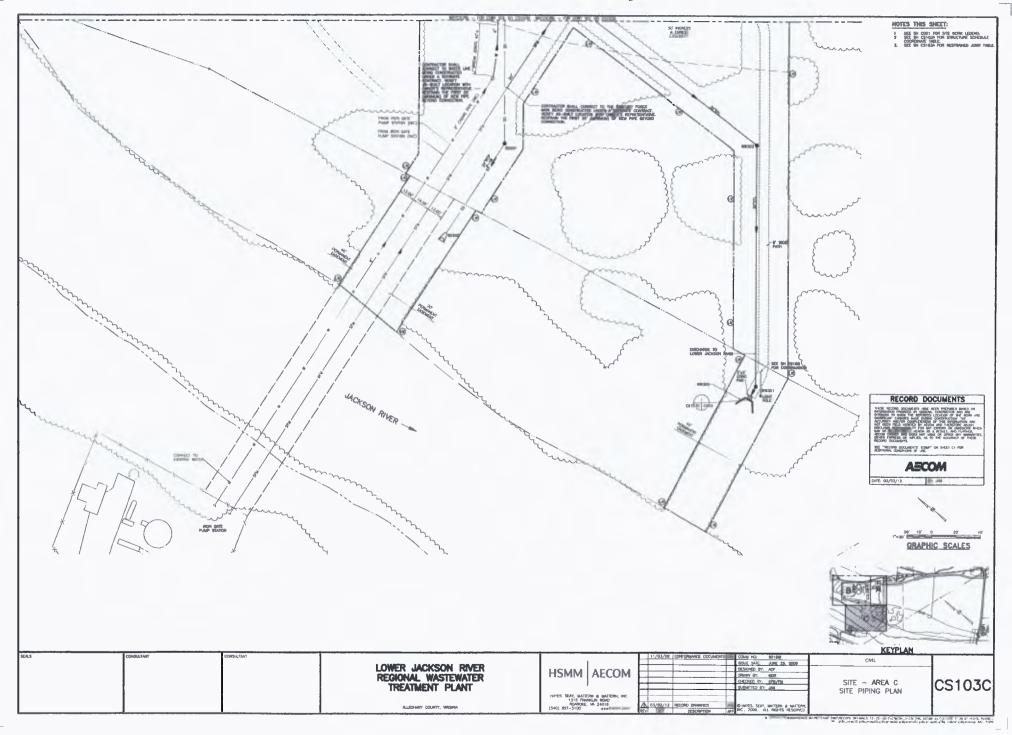
CHIC RECORD DRAIBEYS 63-67-7012/GRECSE, DIDAEDRO 60186-04/13, 2012 11, 46:36 HG/S, RUTSELL RF: glBcimies001g/bc_ierap03.gdbcpriegb0.gdbgmin03.gdbcnies00.gdbgmilard.gdbgmilardi.gdbgmilard

FORM 24 ITEM 3.2









FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Lower Jackson River Regional WWTP - VA0090671 BASIC APPLICATION INFORMATION PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day). All applicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification). B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration. 300,000 gpd Briefly explain any steps underway or planned to minimize inflow and infiltration. Public works continues to efforts to decrease I&I throughout the collection system. B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.) a. The area surrounding the treatment plant, including all unit processes. The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable, c. Each well where wastewater from the treatment plant is injected underground. Wells, springs, other surface water bodies, and drinking water wells that are: 1) within 1/4 mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant. e. Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed. If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where that hazardous waste enters the treatment works and where it is treated, stored, and/or disposed. B.3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and all backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g. chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram. B.4. Operation/Maintenance Performed by Contractor(s). Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a ✓ Yes ___No contractor? If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary). Name: Environmental Systems Service, Ltd. Mailing Address: P. O. Box 520 Culpeper, VA 22701

uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.) a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

Responsibilities of Contractor: Operation and maintenance of the treatment plant and associated pump stations.

B.5. Scheduled Improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or

__Yes ____No

Telephone Number: (540) 825-6660

Lower Jackson River Regional WWTP - VA0090671

С	If the answer to B.	5.b is "Yes," brie	efly describe, incl	uding new maxir	num daily inflow	rate (if applica	bie).	
		provements pla	nned independer	ntly of local, State			ementation steps listed planned or actual con	
			Schedule	A	ctual Completion	١		
	Implementation St	age	MM / DD /	YYYY M	M/DD/YYYY			
	- Begin construction	on	//		_//			
	- End construction	1			_/_/			
	– Begin discharge		//	_	//			
	 Attain operational 	al level						
	Have appropriate Describe briefly:		_		•		Yes	_No
testi over metl stan polli	ing required by the rflows in this sectio hods. In addition, (permitting authorn. All information this data must consider the most consider the most analytes not addust be no more to the more than	ority for each out on reported must omply with QA/Q iressed by 40 CF	fall through which be based on dat C requirements of R Part 136. At a	n effluent is disch a collected throu of 40 CFR Part 1	narged. Do no gh analysis co 36 and other a	eters. Provide the inc t include information o nducted using 40 CFF ppropriate QA/QC rec must be based on at	n combined sewer R Part 136 Juirements for
PO	LLUTANT		JM DAILY HARGE	AVERA	GE DAILY DISC	HARGE		
		Conc.	Units	Conc.	Units	Number of Samples	ANALYTICAL METHOD	ML / MDL
CONVENT	IONAL AND NON	CONVENTIONA	L COMPOUNDS	3.	<u> </u>	<u> </u>	<u> </u>	<u> </u>
AMMONIA	(as N)	<ql< td=""><td>mg/L</td><td><ql< td=""><td>mg/L</td><td>3</td><td>EPA350.1Rev2</td><td>0.10 mg/L</td></ql<></td></ql<>	mg/L	<ql< td=""><td>mg/L</td><td>3</td><td>EPA350.1Rev2</td><td>0.10 mg/L</td></ql<>	mg/L	3	EPA350.1Rev2	0.10 mg/L
CHLORINE		N/A		N/A				
	D OXYGEN							
TOTAL KJE		15.7	mg/L	11.3	mg/L	365	SM4500-O	0.2 mg/L
NITROGEN	(TKN)	1.56	mg/L	0.13	mg/L	52	SM4110B 2000	0.5 mg/L
NITRATE F NITROGEN	PLUS NITRITE	11.0	mg/L	4.8	mg/L	52	SM4110B 2000	0.5 mg/L
OIL and GF		7.8	mg/L	2.6	mg/L	3	EPA1664A	5.0 mg/L
PHOSPHO	RUS (Total)	0.35	mg/L	0.10	mg/L	52	SM4500PBE1999	0.05 mg/L
TOTAL DIS SOLIDS (TI		234	mg/L	230	mg/L	3	SM2540-C 1997	1.00 mg/L
OTHER								
				END OF PA	ARTR		<u> </u>	

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:		Form Approved 1/14/99 OMB Number 2040-0086
Lower Jackson River Regional WWTP - VA009	90671	Civib Nutriber 2040-0000
BASIC APPLICATION INFORMA	TION	
PART C. CERTIFICATION		
applicants must complete all applicable sections of	Form 2A, as explained in the Applicate certification statement, applicants of	e who is an officer for the purposes of this certification. All ation Overview. Indicate below which parts of Form 2A you onfirm that they have reviewed Form 2A and have completed
Indicate which parts of Form 2A you have comp	leted and are submitting:	
Basic Application Information packet	Supplemental Application Inform	nation packet:
	Part D (Expanded Efflu	ent Testing Data)
	Part E (Toxicity Testing	g: Biomonitoring Data)
	Part F (Industrial User	Discharges and RCRA/CERCLA Wastes)
	Part G (Combined Sew	ver Systems)
ALL APPLICANTS MUST COMPLETE THE FOLL	OWING CERTIFICATION.	
designed to assure that qualified personnel properly who manage the system or those persons directly re	gather and evaluate the information esponsible for gathering the information	er my direction or supervision in accordance with a system in submitted. Based on my inquiry of the person or persons tion, the information is, to the best of my knowledge and submitting false information, including the possibility of fine
Name and official title	County Administrator	
Signature J. A.		
Telephone number (540) 863-6600	1	
Date signed 02 June 2	۵۱	
Upon request of the permitting authority, you must s works or identify appropriate permitting requirement	submit any other information necessa	ary to assess wastewater treatment practices at the treatment

SEND COMPLETED FORMS TO:

Lower Jackson River Regional WWTP

Form 2A Item B.3 - Process Narrative

The Lower Jackson River Regional WWTP is 2.6 MGD wastewater treatment facility which includes Pretreatment, biological and chemical removal, filtration, ultra-violet disinfection, post aeration and sludge management processes.

Wastewater enters the treatment facility at the Headworks Building via a 20" force main from the Iron Gate Pump station. I traveling screen is utilized for screening debris from the wastewater. A manual bar screen is also provided. Grit removal is accomplished using a vortex grit removal system. From the Headworks Building wastewater is conveyed to the Aeration Basins via a 24" gravity pipeline.

The treatment facility is equipped with two Aeration Basins utilizing the Bardenpho Activated sludge process. Wastewater enters the first pre-anoxic zone where it is mixed with Return Activated Sludge from the clarifiers before entering the second pre-anoxic zone. In the second pre-anoxic zone flow is mixed with recycled flow from the end of the aeration tank before flowing into the third and fourth pre-anoxic zones. Nitrogen removal is accomplished in the pre-anoxic zones by converting nitrate and nitrite to oxygen and nitrogen gas, which escapes to the atmosphere.

Flow from the fourth pre-anoxic zone enters the aeration basin. In the aeration tank biological oxygen demand is reduced and ammonia is converted to nitrite and nitrate. The aeration tank is provided with an internal recirculation pump which recirculates up to 300% of the influent zone to the second pre-anoxic zone. From the end of the aeration basin flow enters four post-anoxic zones where additional nitrogen removal is accomplished. In the final post-anoxic zone aluminum sulfate is added prior to flowing to the clarifiers.

The facility is equipped with two centerflow clarifiers. In the clarifiers solidsx from the mixed liquor from the aeration tank are settled which is pumped back to first pre-anoxic basin tank and mixed with incoming wastewater from the headworks. Clear water overflows the clarifier weirs and flows to the tertiary filters.

The facility is equipped with two cloth media filters which further reduce any particulate matter in the wastewater from the clarifiers. The filters are equipped with filter back wash filters and sludge pumps. Material from the filter back wash is pumped to the filter back wash pump station and subsequently back to the headworks building. Sludge that accumulates in the bottom of the filter tanks is pumped to the aerobic digesters. The filters are equipped with continuous turbidity meters. Effluent from the filters then flows to the UV and NPW shed.

Filter effluent flows to the UV channel which is equipped with two banks of UV lights consisting of forty UV bulbs per bank. The UV system is equipped with an automatic cleaning system to insure the bulbs remain free of debris. From the UV channel, wastewater flows to the post aeration tanks and NPW tank.

The Post Aeration tank is equipped with two blowers and series of diffusers which aerates the wastewater to insure adequate dissolved oxygen content prior to discharge to the Jackson River. The aeration tanks have continuous pH and dissolve oxygen meters.

The NPW tank is equipped with three NPW pumps which supply all the hydrants, wash down equipment and HVAC water demands inside the plant.

Two aerobic digesters are provided. Waste activated sludge is pumped from the return sludge from the clarifiers. Three positive displacement pumps are used to aerate the digester sludge. Sludge from the digesters is pumped to a rotary fan press located in the Solids building.

Sludge from the digesters are pumped to the Rotary fan press which dewaters the sludge. Dewatered sludge is collected in to a hopper which is transported to Amelia Landfill for discposal.

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SUPPLEMENTAL APPLICATION INFORMATION

PART D. EXPANDED EFFLUENT TESTING DATA

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Treatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: .001 (Complete once for each outfall discharging effluent to waters of the United States.)

CONC. CYANIDE, <.002 <.003 <.002	PHENO mg/l	Mass LS, AND 0	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
<.002 <.003 <.002	mg/l	0	HARDNE							
<.003	mg/l			<.002						
<.002		0		1	mg/l	0		3	EPA 200.8	0.002
	mc/l			<.003	mg/l	0		3	EPA 200.8	0.003
	mg/l	0		<.002	mg/i	0		3	EPA 200.8	0.002
<.005	mg/l	0		<.005	mg/l	0		3	EPA 200.8	0.005
<.005	mg/l	0		<.005	mg/l	0		3	EPA 200.8	0.005
0.015	mg/l	.192	lb/dy	0.014	mg/l	0.113	lb/dy	3	EPA 200.8	0.005
<.005	mg/l	0		<.005	mg/l	0		3	EPA 200.8	0.005
<.001	mg/l	0		<ql< td=""><td>mg/l</td><td>0</td><td></td><td>3</td><td>EPA 245.1</td><td>0.001</td></ql<>	mg/l	0		3	EPA 245.1	0.001
<.005	mg/l	0		<.005	mg/l	0		3	EPA 200.8	0.005
<.005	mg/l	0		<.005	mg/l	0		3	EPA 200.8	0.005
<.005	mg/l	0		<.005	mg/l	0		3	EPA 200.8	0.005
<.002	mg/l	0		<.002	mg/l	0		3	EPA 200.8	0.002
0.050	mg/l	0.417	lb/dy	0.035	mg/l	0.27	lb/dy	3	EPA 200.8	0.005
<.005	mg/l	0		<.005	mg/l	0		3	EPA 335.4	0.005
<0.02	mg/l	0		<0.02	mg/l	0		3	EPA 420.4	0.02
131	mg/l	1364	lb/dy	114	mg/l	895	lb/dy	3	SM 2340C	2
provide inf	formation	on other	metals re	quested b	y the per	mit writer				
	0.015 <.005 <.005 <.005 <.005 <.005 <.002 0.050 <.005	0.015 mg/l <.005 mg/l <.001 mg/l <.005 mg/l <.005 mg/l <.005 mg/l <.002 mg/l <.005 mg/l <.007 mg/l <10.007 mg/l <10.007 mg/l <10.007 mg/l <10.007 mg/l <10.007 mg/l <10.007 mg/l	0.015 mg/l .192 <.005 mg/l 0 <.001 mg/l 0 <.005 mg/l 0 <.005 mg/l 0 <.005 mg/l 0 <.005 mg/l 0 <.002 mg/l 0 0.050 mg/l 0 <0.005 mg/l 0 131 mg/l 1364	0.015 mg/l .192 lb/dy <.005 mg/l 0 <.001 mg/l 0 <.005 mg/l 0 <.005 mg/l 0 <.005 mg/l 0 <.005 mg/l 0 <.002 mg/l 0 0.050 mg/l 0.417 lb/dy <.005 mg/l 0 <0.002 mg/l 0 <131 mg/l 1364 lb/dy	0.015 mg/l .192 lb/dy 0.014 <.005	0.015 mg/l .192 lb/dy 0.014 mg/l <.005	0.015 mg/l .192 lb/dy 0.014 mg/l 0.113	0.015 mg/l .192 lb/dy 0.014 mg/l 0.113 lb/dy	0.015 mg/l .192 lb/dy 0.014 mg/l 0.113 lb/dy 3	0.015 mg/l .192 lb/dy 0.014 mg/l 0.113 lb/dy 3 EPA 200.8

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Outfall number: 1 (Complete once for each outfall discharging effluent to waters of the United States.) POLLUTANT AVERAGE DAILY DISCHARGE MAXIMUM DAILY DISCHARGE Units Mass Conc. Conc. Units Units Mass Units Number **ANALYTICAL** ML/ MDL **METHOD** of Samples VOLATILE ORGANIC COMPOUNDS. ACROLEIN <5 3 <5 ug/l 0 ug/l 0 **EPA 624** 5 **ACRYLONITRILE** <50 0 <50 0 3 **EPA 624** ug/l ug/l 50 BENZENE <5 0 ug/l <5 ug/l 0 3 **EPA 624** 50 **BROMOFORM** <5 ug/l 0 <5 ug/l 0 3 **EPA 624** 5 ug/l CARBON TETRACHLORIDE <5 ug/l 0 <5 ug/l 0 3 **EPA 624** 5 ug/l CLOROBENZENE 0 <5 3 <5 ug/l ug/l 0 **EPA 624** 5 ug/l CHLORODIBROMO-METHANE <5 0 ug/l <5 ug/i 0 3 **EPA 624** 5 ug/l CHLOROETHANE <10 ug/l 0 <10 ug/l 0 3 **EPA 624** 10 ug/l 2-CHLORO-ETHYLVINYL <5 ug/l 0 <5 ua/l 0 3 **EPA 624** 5 ug/l **ETHER** CHLOROFORM <5 0 <5 ug/l ug/i 0 3 **EPA 624** 5 ug/l DICHLOROBROMO-METHANE <5 0 <5 ug/l ug/l 0 3 **EPA 624** 5 ug/l 1.1-DICHLOROETHANE <5 0 <5 ug/l ug/l 0 3 **EPA 624** 5 ug/l 1,2-DICHLOROETHANE <5 0 <5 ug/l ug/l 0 3 **EPA 624** 5 ug/l TRANS-1,2-DICHLORO-ETHYLENE <5 ug/l 0 <5 ug/l 0 3 **EPA 624** 5 ug/l 1,1-DICHLOROETHYLENE <5 0 <5 ug/l ug/l 0 3 **EPA 624** 5 ug/l 1.2-DICHLOROPROPANE <5 0 <5 ug/l ug/l 0 3 **EPA 624** 5 ug/l 1,3-DICHLORO-PROPYLENE <5 ug/l 0 <5 0 3 ug/l **EPA 624** 5 ug/l **ETHYLBENZENE** <5 ug/l 0 <5 0 ug/l 3 **EPA 624** 5 ug/l METHYL BROMIDE <10 ug/l 0 <10 ug/l 0 3 **EPA 624** 10 ug/l METHYL CHLORIDE <10 ug/l 0 <10 0 ug/l 3 **EPA 624** 10 ug/l METHYLENE CHLORIDE <5 0 <5 ug/l 0 ug/l 3 **EPA 624** 5 ug/l 1,1,2,2-TETRACHLORO-ETHANE <5 ug/l 0 <5 ug/l 0 3 **EPA 624** 5 ug/l TETRACHLORO-ETHYLENE <5 0 <5 ug/l 0 ug/l 3 **EPA 624** 5 ug/l **TOLUENE** ug/l lb/dy 6 46.3 3 ug/l 23.1 lb/dy 3 **EPA 624** 5 ug/l

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Outfall number: 1									f the United	states.)	
POLLUTANT			JM DAIL HARGE	Y	A'	VERAGI	EDAILY	DISCH	ARGE		
	Conc.	Units	Mass	Units	Conc.	Units	Mass	Units	Number of Samples	ANALYTICAL METHOD	ML/ MDL
1,1,1-TRICHLOROETHANE	<5	ug/l	0		<5	ug/l	0		3	EPA 624	5 ug/l
1,1,2-TRICHLOROETHANE	<5	ug/l	0		<5	ug/l	0		3	EPA 624	5 ug/l
TRICHLORETHYLENE	<5	ug/l	0		<5	ug/l	0		3	EPA 624	5 ug/l
VINYL CHLORIDE	<10	ug/l	0		<10	ug/l	0		3	EPA 624	10 ug/l
Use this space (or a separate sheet)	to provide i	nformatio	n on other	r volatile o	organic co	mpounds	requeste	d by the	permit writer.		1
ACID-EXTRACTABLE COMPOUNI	os										<u> </u>
P-CHLORO-M-CRESOL	<20	ug/l	0		<20	ug/l	0		3	EPA 625	20 ug/l
2-CHLOROPHENOL	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
2,4-DICHLOROPHENOL	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
2,4-DIMETHYLPHENOL	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
4,6-DINITRO-O-CRESOL	<50	ug/l	0		<50	ug/l	0		3	EPA 625	50 ug/l
2,4-DINITROPHENOL	<50	ug/l	0		<50	ug/l	0		3	EPA 625	50 ug/l
2-NITROPHENOL	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
4-NITROPHENOL	<50	ug/l	0		<50	ug/l	0		3	EPA 625	50 ug/l
PENTACHLOROPHENOL	<50	ug/l	0		<50	ug/l	0		3	EPA 625	50 ug/l
PHENOL	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
2,4,6-TRICHLOROPHENOL	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
Use this space (or a separate sheet)	to provide in	nformatio	n on other	acid-extr	actable co	mpounds	requeste	ed by the	permit writer.		
BASE-NEUTRAL COMPOUNDS.											
ACENAPHTHENE	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
ACENAPHTHYLENE	<10	ug/l	0		<10	ug/i	0		3	EPA 625	10 ug/l
ANTHRACENE	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
BENZIDINE	<20	ug/l	0		<20	ug/l	0		3	EPA 625	20 ug/l
BENZO(A)ANTHRACENE	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
BENZO(A)PYRENE	<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l

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(Complete once for each outfall discharging effluent to waters of the United States.) Outfall number: 1 POLLUTANT **MAXIMUM DAILY** AVERAGE DAILY DISCHARGE DISCHARGE Units Conc. Units Mass Units Number ANALYTICAL ML/ MDL Conc. Units | Mass of **METHOD** Samples <10 3,4 BENZO-FLUORANTHENE <10 ug/l 0 ug/l 0 3 **EPA 625** 10 ug/l **BENZO(GHI)PERYLENE** <10 <10 ug/l 0 ug/l 0 3 **EPA 625** 10 ug/l BENZO(K)FLUORANTHENE <10 ug/l 0 <10 ug/l 0 3 **EPA 625** 10 ug/l BIS (2-CHLOROETHOXY) 3 10 ug/l <10 ug/l 0 <10 ug/l 0 **EPA 625 METHANE** BIS (2-CHLOROETHYL)-ETHER <10 0 <10 0 3 **EPA 625** 10 ug/l ug/l ug/l BIS (2-CHLOROISO-PROPYL) <10 ug/l 0 <10 ug/l 0 3 **EPA 625** 10 ug/l **ETHER** BIS (2-ETHYLHEXYL) PHTHALATE 0 0.047 <10 0.34 0.19 0.02 3 **EPA 625** ug/l ug/l 10 ug/l 4-BROMOPHENYL PHENYL ETHER <10 0 <10 0 3 **EPA 625** ug/l ug/l 10 ug/l 0 <10 <10 ug/l 0 3 **BUTYL BENZYL PHTHALATE** ug/l **EPA 625** 10 ug/l 2-CHLORONAPHTHALENE <10 0 <10 0 3 **EPA 625** ug/l ug/l 10 ug/l 4-CHLORPHENYL PHENYL ETHER 0 <10 <10 0 3 **EPA 625** ug/l ug/l 10 ug/l CHRYSENE 0 <10 <10 ug/l ug/l 0 3 **EPA 625** 10 ug/l DI-N-BUTYL PHTHALATE <10 ug/l 0 <10 ug/l 0 3 **EPA 625** 10 ug/l DI-N-OCTYL PHTHALATE 0 <10 ug/l <10 uq/l 0 3 **EPA 625** 10 ug/l DIBENZO(A,H) ANTHRACENE 0 <10 ug/l <10 ug/l 0 3 **EPA 625** 10 ug/l 1.2-DICHLOROBENZENE <5 0 <5 ug/l ug/l 0 3 **EPA 624** 5 ug/l 1.3-DICHLOROBENZENE <5 ug/l 0 <5 ug/l 0 3 **EPA 625** 5 ug/l 1,4-DICHLOROBENZENE <5 ug/l 0 <5 0 3 ug/l **EPA 625** 5 ug/l 3,3-DICHLOROBENZIDINE 0 <20 ug/l <20 ug/l 0 3 **EPA 625** 20 ug/l DIETHYL PHTHALATE 0 <10 ug/l <10 ug/l 0 3 **EPA 625** 10 ug/l DIMETHYL PHTHALATE <10 0 <10 ug/l 0 3 ug/l **EPA 625** 10 ug/l 2,4-DINITROTOLUENE <10 ug/l 0 <10 0 ug/l 3 **EPA 625** 10 ug/l 2,6-DINITROTOLUENE <10 ug/l 0 <10 ug/l 0 3 **EPA 625** 10 ug/l 1,2-DIPHENYLHYDRAZINE <10 ug/l 0 <10 ug/l 0 3 **EPA 625** 10 ug/l

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<10 <10 <10		IM DAILY HARGE Mass	Units	Conc.	/ERAGE Units	DAILY Mass	DISCH/ Units	Number	ANALYTICAL	ML/ MDŁ
<10 <10	ug/l	0	Units		Units	Mass	Units			ML/ MDL
<10				<10				of Samples	METHOD	
	ug/l				ug/l	0		3	EPA 625	10 ug/l
<10		0		<10	ug/l	0		3	EPA 625	10 ug/l
	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/i	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/i	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
<10	ug/l	0		<10	ug/l	0		3	EPA 625	10 ug/l
provide inf	formation	on other	base-neu	tral compo	ounds red	uested b	y the pen	mit writer.		
provide inf	rormation	on other	poliutants	(e.g., pes	sticides) r	equested	by the pe	ermit writer.		
_	<10 <10 <10 <10 <10 <10 <10 <10 <10 <10	<10 ug/l	<10 ug/l 0	<10 ug/l 0	<10	<10	<10	<10	<10	<10

END OF PART D.
REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM
2A YOU MUST COMPLETE

Form Approved 1/14/99 OMB Number 2040-0086

Lower Jackson River Regional WWTP - VA0090671

SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate

methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete E.1. Required Tests. Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years. √ acute √ chronic E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported. Test number:___ Test number: Test number: a. Test information. Test species & test method number Age at initiation of test Outfall number Dates sample collected Date test started Duration b. Give toxicity test methods followed. Manual title Edition number and year of publication Page number(s) c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used. 24-Hour composite Grab d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each) Before disinfection After disinfection After dechlorination

FACILITY NAME AND PERMIT NUMBER: Form Approved 1/14/99 OMB Number 2040-0086 Lower Jackson River Regional WWTP - VA0090671 SUPPLEMENTAL APPLICATION INFORMATION PART E. TOXICITY TESTING DATA POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters. At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted. If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete E.1. Required Tests. Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years. √ acute E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported. Test number:___ Test number: Test number:___ a. Test information. Test species & test method number See Attached Summary Age at initiation of test Outfall number Dates sample collected Date test started Duration b. Give toxicity test methods followed.

24-Hour composite

Grab

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each)

Before disinfection

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

Before disinfection

After disinfection

After dechlorination

Manual title

Page number(s)

Edition number and year of publication

Lower Jackson River Regional WWTP - VA0090671

Form Approved 1/14/99 OMB Number 2040-0086

	Test number:	Test number:	Test number:
e. Describe the point in the treatme	nt process at which the sample was	collected.	
Sample was collected:			
f. For each test, include whether the	e test was intended to assess chroni	c toxicity, acute toxicity, or both.	
Chronic toxicity			
Acute toxicity			
g. Provide the type of test performe	d.		
Static			
Static-renewal			
Flow-through			
h. Source of dilution water. If labora	atory water, specify type; if receiving	water, specify source.	
Laboratory water			
Receiving water			
i. Type of dilution water. It salt water	er, specify "natural" or type of artificia	al sea salts or brine used.	
Fresh water			
Salt water			
j. Give the percentage effluent used	for all concentrations in the test ser	ies.	
k. Parameters measured during the	test. (State whether parameter mee	ets test method specifications)	
рН			
Salinity			
Temperature			
Ammonia			
Dissolved oxygen			
I. Test Results.			
Acute:			
Percent survival in 100% effluent	%	%	%
LC ₅₀			
95% C.I.	%	%	%
Control percent survival	%	%	%
Other (describe)			

FACILITY NAME AND PERMIT NUMBER: Lower Jackson River Regional WWTP - VA009	00671		Form Approved 1/14/99 OMB Number 2040-0086		
Chronic:					
NOEC	%	%	(
IC ₂₅	%	%			
Control percent survival	%	%	ţ		
Other (describe)					
m. Quality Control/Quality Assurance.					
Is reference toxicant data available?					
Was reference toxicant test within acceptable bounds?					
What date was reference toxicant test run (MM/DD/YYYY)?					
Other (describe)					
Yes ✓ No If yes, describe: Yes ✓ No If yes, describe: E.4. Summary of Submitted Biomonitoring Test cause of toxicity, within the past four and one-summary of the results.	Information. If you have submitted bior	monitoring test information, or inform	ation regarding the authority and a		
Date submitted: (MM/I	DD/YYYY)				
Summary of results: (see instructions)					
All testing results have been previously s Summary.	submitted, reviewed and accepted. S	See Attached			

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM

2A YOU MUST COMPLETE.

FACILITY INFORMATION

FACILITY: Lower Jackson River Regional WWTP

LOCATION: Alleghany County, Virginia

VPDES PERMIT NUMBER: VA0090671 EXPIRATION DATE: 09/28/16

SIC CODE (DESCRIPTION): 4952 Sewerage Systems

RECEIVING STREAM: Jackson River

Basin: James River (Upper)

Subbasin: NA Section: 12 Class: IV

Special Standards: None Flow, 1Q10: 119 MGD Flow, 7O10: 191 MGD

OUTFALL 001: Discharge began in September, 2011

2.6 MGD: 5 stage Bardenpho Activated Sludge Process, UV disinfection, post aeration

WET REQUIREMENTS:

Quarterly acute and chronic toxicity testing using 24-hour flow-proportioned samples until 8 quarterly tests have been performed and continue annually for the life of the permit. The acute tests shall be 48-hour static tests using *Ceriodaphnia dubia* and *Pimephales promelas*. The chronic tests shall be Chronic 3-Brood Static Renewal Survival and Reproduction Test using *Ceriodaphnia dubia* and Chronic 7-Day Static Renewal Survival and Growth Test using *Pimephales promelas*. The test dilutions should be able to determine compliance with the following endpoints

 $LC_{50} \ge = 33\%$ Chronic NOEC of $\ge 4\%$ equivalent to a TUc ≤ 25

Table 1 Acute Toxicity Test Data for the LJRR WWTP; VA0090671; Outfall 001;

Endpoint $LC_{50} = 33\%$

Test Date - Quarter	Test Organism	LC ₅₀ (%)	% Survival in 100% Effluent	Testing Laboratory
3/6/12 - 1*	C. dubia	>100	100	CBI
3/6/12 - 1*	P. promelas	>100	100	CBI
6/20/12 - 2	C. dubia	>100	100	CBI
6/20/12 - 2	P. promelas	>100	100	CBI
8/29/12 - 3	C. dubia	>100	100	CBI
8/29/12 - 3	P. promelas	>100	100	CBI
11/13/12 - 4	C. dubia	>100	100	CBI
11/13/12 - 4	P. promelas	>100	100	CBI
3/20/13 - 5	C. dubia	>100	100	CBI
3/20/13 - 5	P. promelas	>100	100	CBI
6/19/13 – 6	C. dubia	>100	100	CBI
6/19/13 - 6	P. promelas	>100	100	CBI
8/28/13 - 7	C. dubia	>100	100	CBI
8/28/13 - 7	P. promelas	>100	100	CBI
10/30/13 - 8	C. dubia	>100	100	CBI
10/30/13 - 8	P. promelas	>100	100	CBI
3/12/14 – 9	C. dubia	>100	100	CBI
3/12/14 – 9	P. promelas	>100	100	CBI
6/18/14 - 10	C. dubia	>100	100	CBI
6/18/14 - 10	P. promelas	>100	100	CBI
7/22/15 – A1	C. dubia	>100	100	CBI
7/22/15 - A1	P. promelas	>100	100	CBI

^{*} Notes:

Q1 samples collected as time composites rather than flow proportional composites

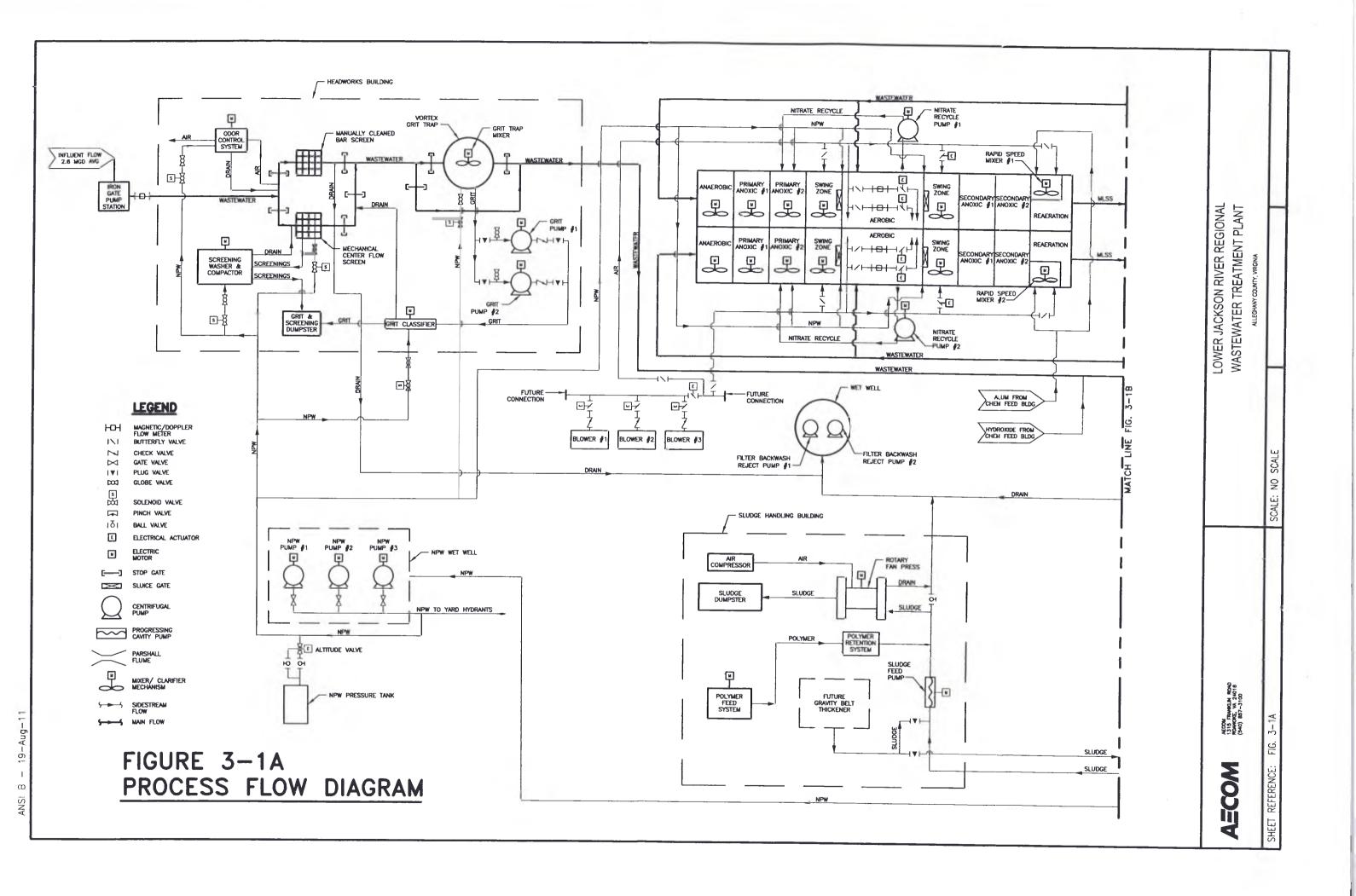
Table 2 Chronic Toxicity Test Data for the LJRR WWTP; VA0090671; Outfall 001; Endpoint NOEC ≥ 4%

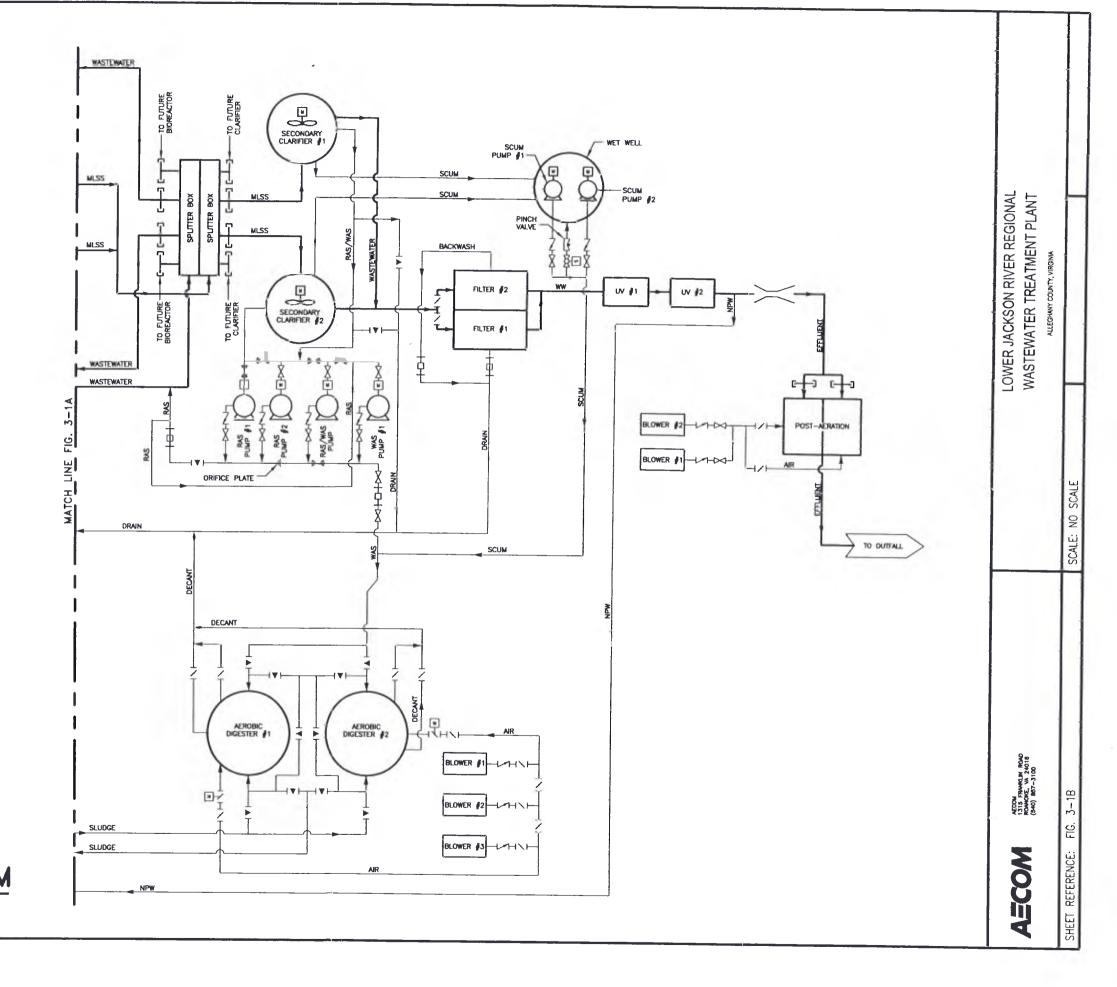
		MORG	0/0 : 1:	T .:
T O .			1	Testing
Test Organism			100% Ettluent	Laboratory
	(%)	-		
		(%)		
C. dubia	100	100	100	CBI
P. promelas	100	100	93	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	88	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	100	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	100	CBI
C. dubia	100	100	90	CBI
P. promelas	100	100	98	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	98	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	92.5	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	97.5°	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	100	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	100	CBI
C. dubia	100	100	100	CBI
P. promelas	100	100	97.5c	CBI
	C. dubia P. promelas C. dubia	C. dubia 100 P. promelas 100 C. dubia 100	NOEC Survival Growth or Reproduction (%) Reproduction (%) C. dubia 100 100 100 P. promelas 100 100 100 P. promelas 100 100 100 P. promelas 100 100 P. promelas 100 100	Test Organism

^{*} Notes:

c indicates same % survival as control

Q1 samples collected as time composites rather than flow proportional composites





LEGEND

HOH MAGNETIC/DOPPLE FLOW METER

IN I BUTTERFLY VALVE

CHECK VALVE

GATE VALVE

IV I PLUG VALVE

CCC GLOBE VALVE

SOLENOID VALVE

SOLENOID VALVE

BALL VALVE

E ELECTRICAL ACTUATOR

ELECTRIC MOTOR

STOP GATE

CENTRIFUG

PROGRESSING CAVITY PUMP

PARSHA

MIXER/ CLARIFIER MECHANISM

SIDESTREAM FLOW

MAIN FLOW

FIGURE 3-1B PROCESS FLOW DIAGRAM



D. Receiving Water

(name)

EPA ID Number (copy from Item 1 of Form 1) VA0090671

Please print or type in the unshaded areas only

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water

32

B. Latitude

Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

FORM 2F NPDES

Outfall Location

A. Outfall Number

(list)

.002

U.S. Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Jackson River

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

C. Longitude

040

79

	- 1					
. Improvements						
A. Are you now required by any F treatment equipment or practices	s or any other er	nvironmental programs which may	ementation schedule for the construction, upgrading affect the discharges described in this application? This eschedule letters, stipulations, court orders, and grant	is includes, but is	s not limited	
Identification of Conditions.		2. Affected Outfalls			4. Final Compliance Date	
Agreements, Etc.	number	source of discharge	Brief Description of Project	a. req.	b. proj.	
/A		***				

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including, each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

Continued from the Front

IV Narrative Description of Pollutant Sources

drained	by the outfall.			reas and building roofs) drained to the outfall, a	
Outfall Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Draine (provide units)
02 2	20,000 sq ft	240,000 sq ft			
				<u> </u>	
to storm	n water; method of treatment, stora ater runoff; materials loading and	age, or disposal; past and pre	esent materials ma	years have been treated, stored or disponancement practices employed to minimize equency in which pesticides, herbicides, s	ze contact by these materials
L chemic	cals are stored inside bui			with floor drains that drain to or the generator is equipped wi	
descrip		ter receives, including the sch		uctural control measures to reduce pollu maintenance for control and treatment m	
Outfall Number			reatment [List Codes fro
02		a containment and sedi	mentation area	a prior to discharge. Additiona	
	storm water outfall is 1	ined with rip rap prio	r to entering	the river	
	5: 1				
A. I certify				ed or evaluated for the presence of nons	
	Official Title (type or print)	Signature	n accompanying F	orm 2C or From 2E application for the ou	Date Signed
on Lanfor	rd, County Administrator	1.1.	- 1 7		07 JUNE 2016
	e a description of the method used, spection of the discharge			points that were directly observed during	a test.
Cinnifi	antiale a Cuilla				
	cant Leaks or Spills	history of significant leaks or	enille of toxic or	hazardous pollutants at the facility in the	ne last three years including
	ate date and location of the spill or I				To last times years, morasing
signifi	cant leaks or spills have	occurred.			

Continued from Page 2

EPA ID Number (copy from Item 1 of Form 1) VA0090671

VII. Discharge Information			
	fore proceeding. Complete one set of tables for ea VII-C are included on separate sheets numbers VII		e space provided.
	ed by analysis – is any toxic pollutant listed in to an intermediate or final product or byproduct?	able 2F-2, 2F-3, or 2F-4, a substance or a	a component of a substance which you
Yes (list all such poll	utants below)	✓ No (go to Section IX)	
	- 4		
III. Biological Toxicity Tes			
Do you have any knowledge or rearelation to your discharge within the Yes (list all such polls)	•	chronic toxicity has been made on any of y No (go to Section IX)	our discharges or on a receiving water in
	mation in Item VII performed by a contract laboratory or contracts, and telephone number of, and pollutants	onsulting firm? No (go to Section X)	
analyzed by, eac	th such laboratory or firm below)		D. Pollutants Analyzed
A. Name	B. Address	C. Area Code & Phone No.	B. I olidiants Allalyzed
EIC, Inc	3029-C Peters Creep Road Roanoke, VA 24019	(540) 777-1276	Oil and Grease (HEM), Total Nitrogen and Total Phosphorous
. Certification			
I certify under penalty of law that a that qualified personnel properly go directly responsible for gathering a	this document and all attachments were prepared ather and evaluate the information submitted. Base the information, the information submitted is, to th ubmitting false information, including the possibility	ed on my inquiry of the person or persons we e best of my knowledge and belief, true, a	tho manage the system or those personaccurate, and complete. I am aware that
A. Name & Official Title (Type Or Pri		B. Area Code and Phone No.	
Jon Lanford, Alleghan	y County Administrator	(540) 863-6600	
Signature \ \ \	1	D. Date Signed	
J. N. L	\ 1	07 June 20	١ (۵

VII. Discharge information (Continued from page 3 of Form 2F)

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

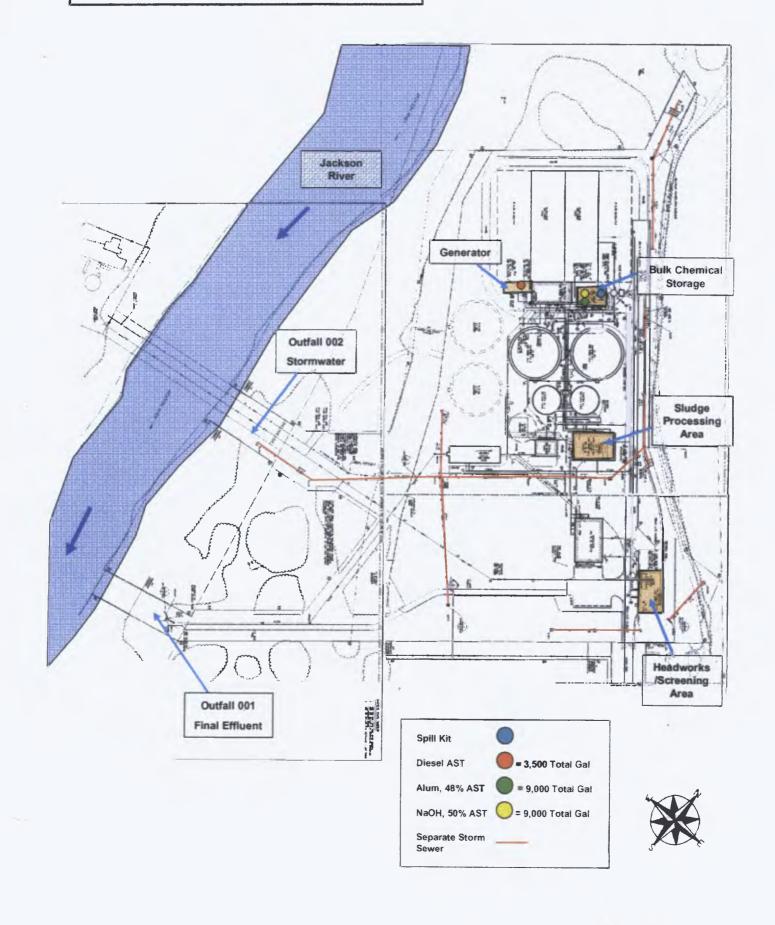
	1	num Values ude units)		erage Values oclude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	<5.0 mg/L	N/A			1	
Biological Oxygen Demand (BOD5)	<1.2 mg/L	<1.2 mg/L			1	
Chemical Oxygen Demand (COD)	ll mg/L	<10 mg/L			1	
Total Suspended Solids (TSS)	27.4 mg/L	6.1 mg/L			1	Silt
Total Nitrogen	0.67 mg/L	<0.5 mg/L			1	
Total Phosphorus	0.07 mg/L	<0.05 mg/L			1	
рН	Minimum 7.6 s.u.	Maximum 7.60 S.U	Minimum 7.6	Maximum 7.6 S.tr	1	

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

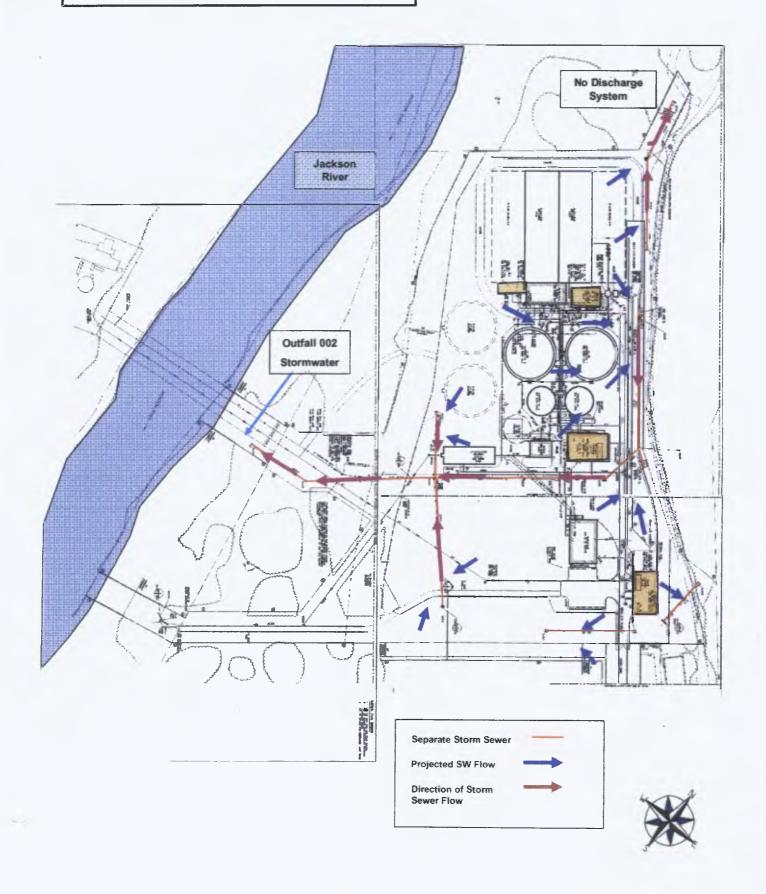
	(inc	num Values lude units)	Aver (inc.	age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
- Coli	54.6	N/A			1	unknown
			1			
			1	· · · · · · · · · · · · · · · · · · ·		
			1		 	
	·		1			
			+			
			 			
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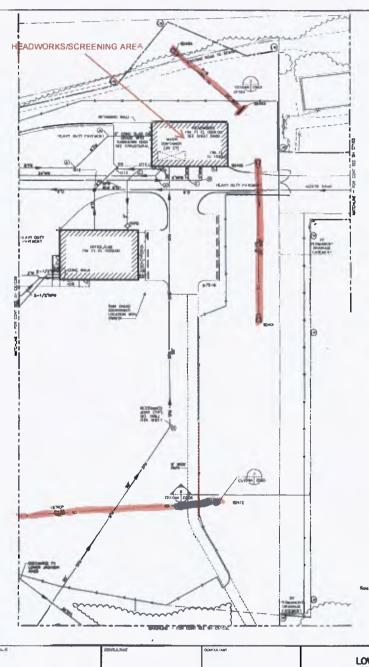
	(inc	num Values lude units)	Ave (ir.	erage Values oclude units)	Numbe		
Pollutant and AS Numbe f available		Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sample		Sources of Pollutants
							
			<u> </u>				
· · · · · · · · · · · · · · · · · · ·							
		ļ					
	-						
	-						
	 						
D – Pr	ovide data for the sto	orm event(s) which resul	ted in the maximus	m values for the flow weig			
		The state of the s	ted in the maximum	4.	inted compos	te sample.	<u> </u>
1 ate of Storm Event	2. Duration of Storm Event (in minutes)	3 Total rain during storm (in inche.	event	Number of hours betwe beginning of storm meas and end of previous measurable rain even	ured (g	um flow rate during rain event allons/minute or specify units)	6. Total flow from rain event (gallons or specify units
6/13	720	2.4	1	192	approx	cimately 5 gpm	approximately 1000 g
							1 3
Provide a	description of the ma	thod of flow measureme					
d bucke		and or now measureme	or estimate.				
uone							

Lower Jackson Regional WWTP Facility Map



Lower Jackson Regional WWTP Projected SW Flow Map





DRAINGE FAYE SLABARAY DATE (SITE)												
р	P-9	Fig	P-11	PL12	P-13	8-18	P-15	P-16	P 17	P ts	P-19	P-20
PPQ SQE (NCHES)	34	34	15	16	15	18	18	1.0	24	- 24	16	19.
CYNTROUTING DRAMAGE AREA ID	CULVERT 1 IA	CLEVERY 1 18	DA-182	DA-161	DA-209	DA-756	DA 204	WA	N/A	Buch	DA 211	QUARTITY RM
CONTINUATING AREA (ACRES)	#55	8 66	1.00	0.43	0.66	0.46	0:19	N/A	- NW	MA.	0.62	2 00 + 8 55
CHERODO PLONE SAFE (FT74)	13	. 93	21	2.9	19	2.9	2.4	13	5.5	5.	2.4	. 94
DESIGN VELOCITY 3-YR (F7%)	19.7	7 1	3.9	3.0	31	3.1	41	41	4.5	4.9	1.0	8.2
OESIGN FLOWL 10 YR (FTFS)	13.1	13 1	. 29	6.0	2.6	4.0	4.7	4 4	12.0	126	3.3	5.8
DE SIGN VELOCITY, 19-YR (FT'S)	14 8	7.1	4.6	43	41	3.5	4.6	4.0	81	N.E.	8.5-	4.9
DERIGN UPSTREAM WATER LEVEL 10-1 R	1085 7	1018 2	1014 7	10129	1012.2	1009 5	1009.0	1008.2	1908 4	1304 8	1914 2	1013.3
PRY CHANGERSHIP	ECKANTY	COUNTY .	COUNTY	POLINTY	COUNTY	CEANTY	EQUATRY	COUNTY	COUNTY	CERINTY	COUNTY	CYBLINETY

NOTES

1 INSIDE DAMETER OF ALL MAINFOLE BASES ARE 45" UNLESS NOTED OTHERWISE
2 ALL RENEORGE O CONNETE PIPE (RCP) IS CLASS 3 UNITED SWITT DIOTHERWISE)
3 DESIGN WATER LEVEL FOR P.20 IS FROM 10 YR RESERVOR ROUTING.

E .	-OP-III	The off	DE U	-(9118	CEPH
COLA TOP	P 1	4-6	F42	P 16	FR.
PRINT THE PRINT BY PER	24	24	14	19	76
ON (FT-6), QUATFOR EFFLUENT	131	49.5	9.8	323	127
Val. (FTIR) Val. FOR EFFLUENT	18.0	78	+1	14	14
TAK MATTER PROPERTY OF COMMENS	MMMON	MPMAN	MINWAN	HERYBOL BA	MINIM:N
RIPRAP CLASS	M F	A.C.	86.127	RR 18.**	BR EVI.
RIPRAP GRADARON DM SALL (FT)	Mt. 1.	44	186 V. S.	RR 16 10	man.
MINIMALIN APPRON LENGTH LA & D'	13.6	15.0	14.5	90.6	10.0
MINIMUM LIPSTREAM APRON WIDTH (ET)	6.40	1.15	3%	4.4	7 N
MINIMUM TYPINGS THE AM APPECIN WHETH	19 (8)	15 193	17.09	11.76	IP.M
MOMENTA APRON TRICINESS. T	RA G	TP.	86 ti 15	88 14	BELLEVIA
MAXIMUM SIDE SLOPES / H 1V1	7	NA.	16-A	NO.	7

REFER TO PLATE 3 16-7 FOR MINIMITAL YMNTER COMMITTION (TWF- DZ)

*APPRING DLP IN - 2 x 11 5 × U₂₁ > 3 × 0₁₀, WHERE 0₂₁ < 3 NI INCHES.

DICCHMINES IT FLAT AREA WITH NO DEFINED CHANNEL

*GRUNGE VEGOTI TABLES 19-8

"Bichings, Wesch Table 3 1941"
" Ref riprap Stari Malton Table on Sheet Centa, Libe riprap identification (by Ripra) is a sheet also are thickness decoration.

	BGUII	TORWAY FOR COMMENSATION	AND (BCC) SIRBARRY TABLE		
	DGASII	60C	'8GC-3	760-4	5GC-5
CC Ligary check (1/18)		46.98	50 101	40 211	TPA
DESIDN FLOW (FTYS)	3.0	1.8	28.		11
INNO MATERIAL CONSIDERED	GRASS	GAASS	GREED	GRASS IN MEIGHT)	CHASS
VALAMICS 'A' USE IS CHANNEL SCOPE, MANIMAN (%) DESIDA VELOCITY (*175)	0 0300 1 00%	150	1,005	0 1005 9 75°,	9 0300 4 00%
DESION VELOCITY (FT/S)	£3			0.0	7.0
APACITY CHECK (10 YAG					
ME TRANSPORTED THE J	41	24	33	13	5.6
MATERIAL CONSIDERED	VOOT E.C-2	VDQTBG-2	VD07 EC-3	VDQTEG-2	V007 EG-2
MADESEL W. LEVED	1,000	p spin	n phon	0.0400	p atag
DE AETOCITA & IND	100	1 1	100%	D 73%	1.30%
HOLDE MAMBER	Side	金松	0 44	0.38	0.42
ESEM WATER DEPTH (PT)	120	4.0	0.85	0 63	963
ONE TRUCTION INFORMATION					
OTTOM WIDTH, & (FT)		9	0		9
MINIMAL CHANNEL DEPTH (1811)		10	19	19	100
AJBNUN SIDE SLOPES 2- 1	5.0	3.8	3.0	19	1.0
HANNEL OLLIPE, MONROLAN (%)	1,80	1 80%	1 00%	976%	200
RETURNS MATERIA	VPOTEC 2	VDOTEC:	VDDT EC-3	VDQTEC 2	VDOT EC-2

* CALCULATIONS ACCOUNT FOR INTERMEDIATE CONSTRUCTION STAGE WITH FUTURE CLAREFAS AND RICHE ACTORS NOT VET CONSTRUCTED.

NOTES: 1. REFER TO "CT" SHEETE FOR SOC-1 MID SCC-5 LOCARONS.



Source VIXIT Drainers Manua

TABLE MINO GRADED RIPRAP - WEIGHT ANALYSIS Reprap (Jass/Type Reducements for Onsil 60% + 100 ths Class II 50% - 300 Rts

* In all claves/types of riprup, a maximum 10% of the stone is the nivatire may weigh less than the lower and of the range.

Source Adapted from VDOT Road and Bridge Specifications

NOTES THIS SHEET:

SEE SHOOD FOR SEE WORK LECTION

O RESTRAINED JOINT TABLE

	LENGTH TO ME	COMMUNICATION (1)
	25 FT	H,O
- 18	70 01	10,00
4	3D /Y	0.00
9	150 FY	H/A
4	30 (7	70 FT
4.	36 FT	10 FT

	TRUCTU	RE SCHE	DULE
	COORD	NATE TA	ABLE
PT NO	HORTHING	EASTING	DESCRIPTION
DID	3615445 948	11112256 314	MANAGEST (2)
011	3619311.000	11112300,005	MANUFACTOR CO.
D12	3615186 198	11112657872	MARKET L. CTS.
D13	3615163.760	11112481.702	\$7 H.W.
D14	3615150.354	11112500,350	AT HERE
D15	3814931.801	11112000.374	MINISTER, (2)
D16	3814847.425	11112751.401	MARKET (T)
017	3814646.546	11112010.003	MANHOLE (II)
021	3815240 300	11112000 163	MANGAGLE (2)
D21	3810267,768	1111120202	MANUALE (2)
9010p	JB19723 308	1,36 000	16" VOOT (3-1
90101	HINEM, UR.	11112164-500	VCIDY DI-7
103103	B19502512	11112230,388	16 VOOT ES-1
90200	JB14963.568	11111969.705	24" VERDY ESS-1 (4)
90.00	3614670.738	11113047.074	MANAGER (5)
100202	3615066 467	11119106 774	MODIFICUE (2)
90293	3015100.647	11112200.467	MODELLE (3)
Sec.	3815230.107	DESCRIPTION OF THE PERSON OF	VEXEST ER - 1
Silvero .	3814303.752	SHOW OF SHIP	VC071 Bt -20 L-4"
Sthees	3815460-022	111123W7 A33	ADDL D1-3C T=0.
国211	3010163-933	19112130.000	15" VDCH (35 1
90461	3815016,264	11112464.204	24" VDOT (28 - 1
50402	MICHELL ME.	11112568.332	94" VDD7 65-1
90403	3010127 203	11112001.007	34, 4001 LA-1 (2)
30484	3816306.406	11112006.607	14, ABOL 12 T
SE5412	3514000,505	11113318,008	V007 SW6-1 (1)
WW.300	JB14006.184	11112006 634	MODERN EW-2 6)
100(30)	3614007.798	11112017.800	IMMONULE (2)
WW.5007	3614808.346	11119179.847	MANNOLE (2)



AECOM

(MT), 05/02/12 (87: 486

RECORD DOCUMENTS



SITE - AREA A SITE PIPING PLAN

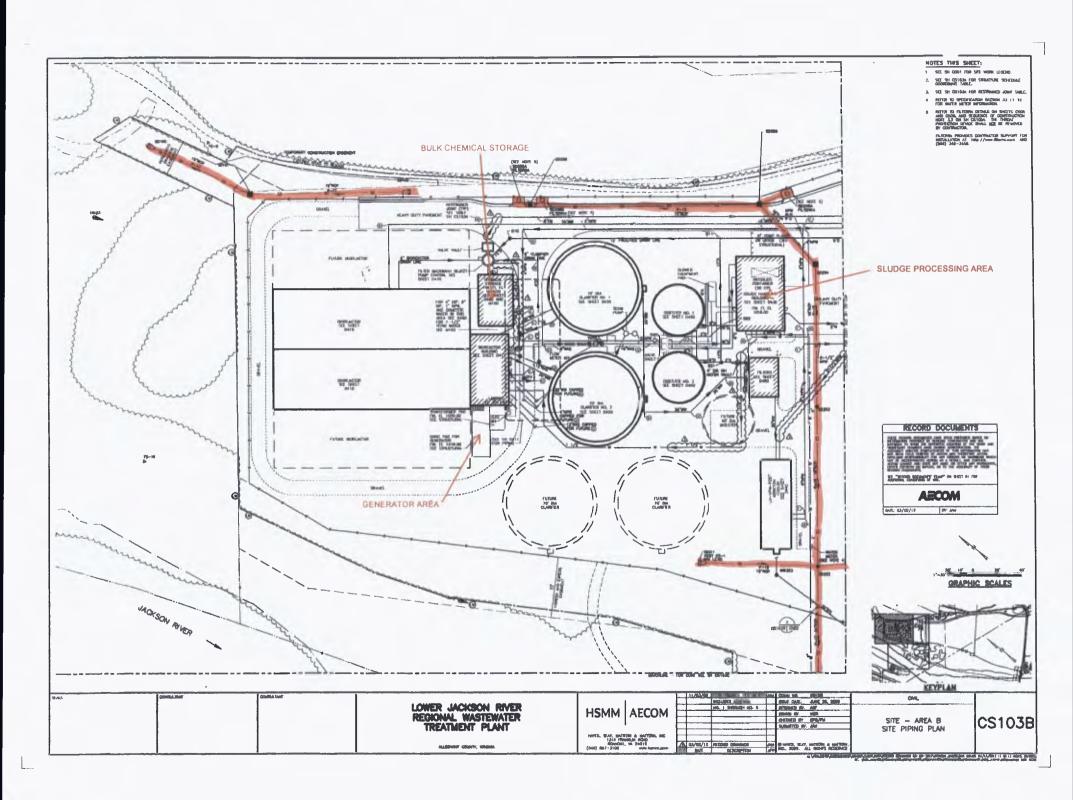
CS103A

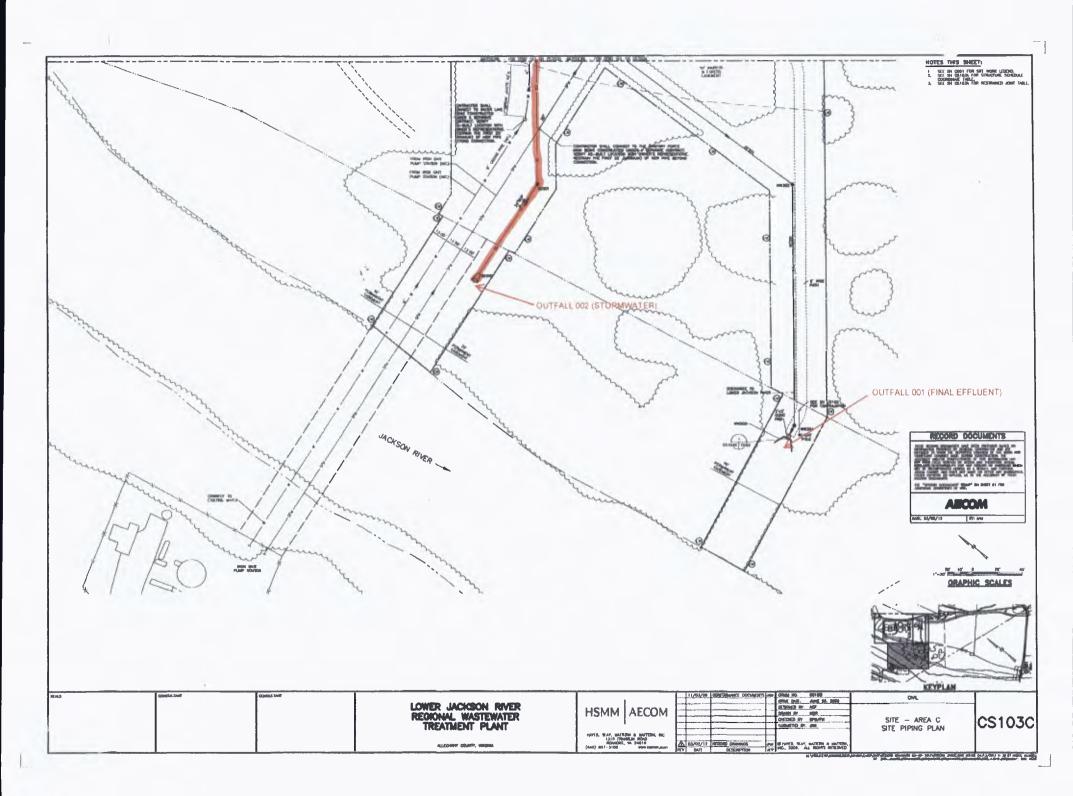
LOWER JACKSON RIVER REGIONAL WASTEWATER TREATMENT PLANT

ALLEGHAMY COUNTY, WRIGHMA

HSMM | AECOM

SOURCE: VESCH, TABLE 3.19-B "APROX DEPTH - 2.4 (1.6.4.0-) - 3.4 Dec WHERE Dec IE PERICHES PETER TO "NUTLEY STABLEZARON" METAL ON SH CSAS.





SCREENING INFORMATION

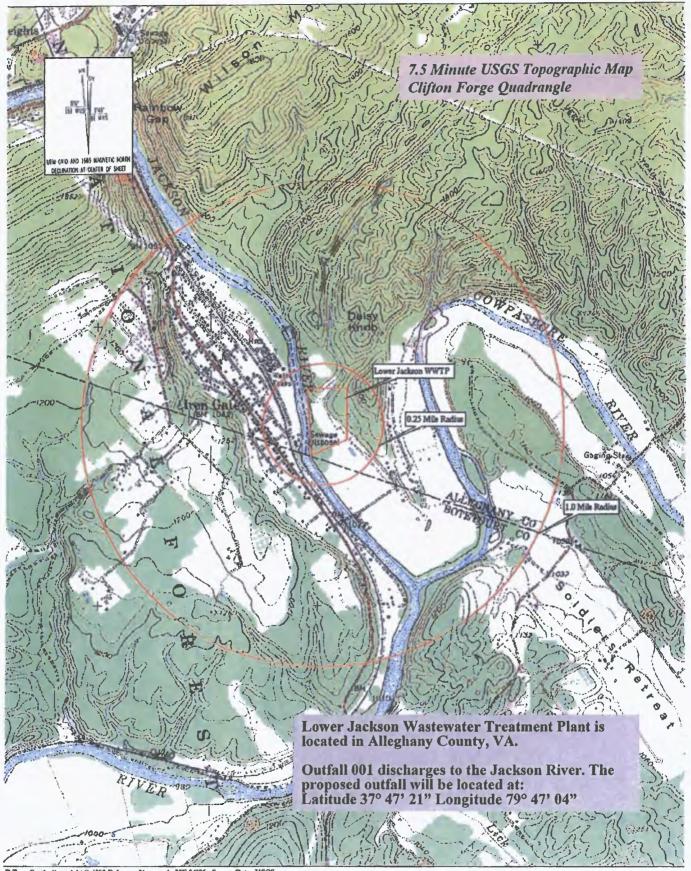
This application is divided into sections. Sections A pertain to all applicants. The applicability of Sections B, C and D depend on your facility's sewage sludge use or disposal practices. The information provided on this page will help you determine which sections to fill out.

deter	mine whic	h sections to fill out.
1,	All ap	plicants must complete Section A (General Information).
2.	Does t	this facility generate sewage sludge? x_Yes _No
	Does t	this facility derive a material from sewage sludge?Yes _x_No
		answered Yes to either, complete Section B (Generation Of Sewage Sludge Or Preparation Of A Material ed From Sewage Sludge).
3.	Does t	this facility apply sewage sludge to the land?Yes _x_No
	Is sew	age sludge from this facility applied to the land? _Yes _x_No
	If you	answer No to all above, skip Section C.
	If you	answered Yes to either, answer the following three questions:
	a.	Does the sewage sludge from this facility meet the ceiling concentrations, pollutant concentrations, Class A pathogen reduction requirements and one of the vector attraction reduction requirements 1-8, as identified in the instructions? YesNo
	b.	Is sewage sludge from this facility placed in a bag or other container for sale or give-away for application to the land?YesNo
	c.	Is sewage sludge from this facility sent to another facility for treatment or blending?YesNo
	If you	answered No to all three, complete Section C (Land Application Of Bulk Sewage Sludge).
	If you	answered Yes to a, b or c, skip Section C.
4.	Do you	u own or operate a surface disposal site?Yes _x_No
	If Yes,	, complete Section D (Surface Disposal).

SECTION A. GENERAL INFORMATION

All applicants must complete this section.

1	Facili	ty Information.
	a.	Facility name: Lower Jackson River Regional WWTP
	b.	Contact person: Brian White
		Title: Plant Manager
		Phone: (540) 862-5138
	c.	Mailing address: Lower Jackson River WWTP
		Street or P.O. Box: 50 Fork Farm Road
		City or Town: Eagle Rock State: VA Zip: 24422
	d.	Facility location:
		Street or Route #:50 Fork Farm Road
		County: Alleghany County
		City or Town: Eagle Rock State: VA Zip: 24085
	e.	Is this facility a Class I sludge management facility? Yes X No
	f.	Facility design flow rate: 2.6 mgd
	g.	Total population served: 5400
	ĥ.	Indicate the type of facility:
		X Publicly owned treatment works (POTW)
		Privately owned treatment works
		Federally owned treatment works
		Blending or treatment operation
		Surface disposal site
		Other (describe):
2.	Applie	cant Information. If the applicant is different from the above, provide the following:
	a.	Applicant name: ESS, Ltd.
	b.	Mailing address:
		Street or P.O. Box: P. O. Box 520
		City or Town: Culpeper State: VA Zip:22701
	c.	Contact person: Brian White
		Title: Plant Manager
		Phone: (540) 862-5138
	d.	Is the applicant the owner or operator (or both) of this facility?
		owner X operator
	d.	Should correspondence regarding this permit be directed to the facility or the applicant?
		X facility X applicant
3.	Permi	Information.
	a.	Facility's VPDES permit number (if applicable): <u>VA0090671</u>
	b.	List on this form or an attachment, all other federal, state or local permits or construction approvals received
		or applied for that regulate this facility's sewage sludge management practices: N/A
		Permit Number: Type of Permit:
1	T J!	
1.	Indian	Country. Does any generation, treatment, storage, application to land or disposal of sewage sludge from this
	racility	occur in Indian Country? Yes X No If yes, describe:



D Topo Quads Copyright @ 1999 DeLorms Yarmouth, ME 04996 Source Data: USGS

700 ft Scale: 1: 24,000 Detail: 13-1 Datum: WGS84

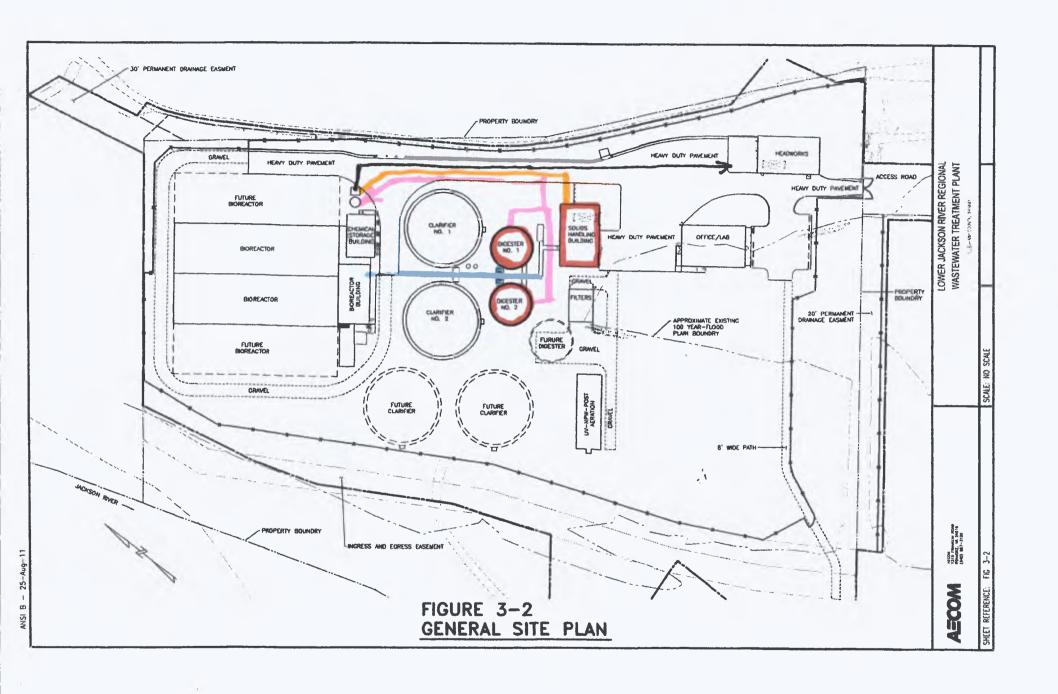
VPDES Sewage Sludge Application Form

VA0090671

Part A Item 6: Line drawing and narrative

Refer to the attached Figure 3-2. The Digesters and Solids Handling Building is outlined in red. Piping is indicated by individual colors and is further described below.

Waste Activated Sludge is pumped from the Return Activated Sludge line located in the Basin Basement to the aerobic digesters (shown in blue) via one of (2) WAS pumps. In the digesters sludge is aerated and volatile solids reduced. Sludge thickening in accomplished through periodic gravity settling of the digester sludge. Supernatant liquid from the thickening process is decanted from the digesters and flows to the Filter Backwash Pump Station (shown in pink) where it is pumped back to the Headworks Building (shown in black). Digested sludge is pumped from the digesters to the Solids Handling Building (shown in orange) where it is dewatered by the Rotary Fan Press. Filtrate from the press is collected in the Solids Building floor drains and flows to the Filter Backwash Pump Station (shown in green). The Filter Backwash Pump Station pumps back to the Headworks Building (shown in black). Dewatered sludge cake is placed into a hopper inside the solids building prior to removal from the facility.



FACILITY NAME: Lower Jackson River Regional WWTP

VPDES PERMIT NUMBER: VA0090671

- 5. Topographic Map. Provide a topographic map or maps (or other appropriate maps if a topographic map is unavailable) that shows the following information. Maps should include the area one mile beyond all property boundaries of the facility:
 - a. Location of all sewage sludge management facilities, including locations where sewage sludge is generated, stored, treated, or disposed.
 - b. Location of all wells, springs, and other surface water bodies listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.
- 6. Line Drawing. Provide a line drawing and/or a narrative description that identifies all sewage sludge processes that will be employed during the term of the permit including all processes used for collecting, dewatering, storing, or treating sewage sludge, the destination(s) of all liquids and solids leaving each unit, and all methods used for pathogen reduction and vector attraction reduction. See attached line drawing and narrative.
- 7. Contractor Information. Are any operational or maintenance aspects of this facility related to sewage sludge generation, treatment, use or disposal the responsibility of a contractor? X Yes No If yes, provide the following for each contractor (attach additional pages if necessary).

 Name: Environmental Systems Service, Ltd.

Mailing address:	iress:	add	ling	1ail	N
------------------	--------	-----	------	------	---

Street or P.O. Box: P.O. Box 520

City or Town: Culpeper State: VA Zip: 22701

Phone: (540) 825-6660

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

If the contractor is responsible for the use and/or disposal of the sewage sludge, provide a description of the service to be provided to the applicant and the respective obligations of the applicant and the contractor(s).

8. Pollutant Concentrations. Using the table below or a separate attachment, provide sewage sludge monitoring data for the pollutants which limits in sewage sludge have been established in 9 VAC 25-31-10 et seq. for this facility's expected use or disposal practices. All data must be based on three or more samples taken at least one month apart and must be no more than four and one-half years old. Note: All Pollutants sampled on 9/23/15, 11/4/15 and 12/9/15

POLLUTANT	CONCENTRATION (mg/kg dry weight)	SAMPLE DATE	ANALYTICAL METHOD	DETECTION LEVEL FOR ANALYSIS
Arsenic	6.88, 7.25, 8.64	9/23,11/4, 12/9/15	SW6010C (2007)	5.00 mg/Kg-dry
Cadmium	2.53, 2.60, 2.56		SW6010C (2007)	1.00 mg/Kg-dry
Chromium	21.3, 21.5, 21.4		SW6010C (2007)	5.00 mg/Kg-dry
Copper	434, 421, 390		SW6010C (2007)	5.00 mg/Kg-dry
Lead	76.1, 74.4, 71.9		SW6010C (2007)	5.00 mg/Kg-dry
Mercury	0.653, 0.869, 0.600		SW7471B (2007)	0.100 mg/Kg-dry
Molybdenum	6.45, 6.09, 6.31		SW6010C (2007)	5.00 mg/Kg-dry
Nickel	19.9, 20.8, 24.1		SW6010C (2007)	5.00 mg/Kg-dry
Selenium	6.33, 5.99, 9.72		SW6010C (2007)	5.00 mg/Kg-dry
Zinc	903, 898, 852		SW6010C (2007)	5.00 mg/Kg-dry

9.	Certification.	Read and submit the following certification state	ement with this application.	Refer to the instructions to
	determine who	o is an officer for purposes of this certification. I	Indicate which parts of the a	pplication you have
		d are submitting:	•	

>	(_Section A (General Information)
>	Section B (Generation of Sewage Sludge or Preparation of a Material Derived from Sewage Sludge)
	Section C (Land Application of Bulk Sewage Sludge)
	Section D (Surface Disposal)

FACILITY NAME:	Lower Jackson River Regional WWTP	VPDES PERMIT NUMBER: VA0090671
	AND THE DESCRIPTION AND AND AND AND AND AND AND AND AND AN	TENEDE TENEDE TO THE PROPERTY OF THE PERSON

Section A Item 7 Additional Contractor Information

Sludge Hauling:

Name: <u>Thompson Trucking</u>
Mailing address:

Street or P.O. Box: 11939 Richmond HWY

City or Town: Concord State: VA Zip: 24538

Phone: (434) 993-2195

Contractor's Federal, State or Local Permit Number(s) applicable to this facility's sewage sludge:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Jon Lanford, Alleghany County Administrator

Signature 1.1. Date Signed 02 June 2016

Telephone number (540) 863-6600

Upon request of the department, you must submit any other information necessary to assess sewage sludge use or disposal practices at your facility or identify appropriate permitting requirements.

FACILITY NAME: Lower Jackson River Regional WWTP VPDES PERMIT NUMBER: VA0090671 SECTION B. GENERATION OF SEWAGE SLUDGE OR PREPARATION

OF A MATERIAL DERIVED FROM SEWAGE SLUDGE

Complete this section if your facility generates sewage sludge or derives a material from sewage sludge

1.		unt Generated On Site. dry metric tons per 365-day period generated at your facility: 125 dry metric tons			
2.	dispo	unt Received from Off Site. If your facility receives sewage sludge from another facility for treatment, use or osal, provide the following information for each facility from which sewage sludge is received. If you receive ge sludge from more than one facility, attach additional pages as necessary. N/A Facility name: Contact Person: Title: Phone ()			
	c.	Mailing address: Street or P.O. Box: City or Town:State:Zip:			
	d.	Facility Address: (not P.O. Box)			
	e. f.	Total dry metric tons per 365-day period received from this facility: dry metric tons Describe, on this form or on another sheet of paper, any treatment processes known to occur at the off-site facility, including blending activities and treatment to reduce pathogens or vector attraction characteristics:			
3.	Treat	ment Provided at Your Facility.			
	a.	Which class of pathogen reduction is achieved for the sewage sludge at your facility? Class AClass B XNeither or unknown			
	b.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce pathogens in sewage sludge: <u>Aerobic Digestion</u>			
	c.	Which vector attraction reduction option is met for the sewage sludge at your facility? Option 1 (Minimum 38 percent reduction in volatile solids) Option 2 (Anaerobic process, with bench-scale demonstration) Option 3 (Aerobic process, with bench-scale demonstration) Option 4 (Specific oxygen uptake rate for aerobically digested sludge) Option 5 (Aerobic processes plus raised temperature) Option 6 (Raise pH to 12 and retain at 11.5) Option 7 (75 percent solids with no unstabilized solids) Option 8 (90 percent solids with unstabilized solids) X_ None or unknown			
	d.	Describe, on this form or another sheet of paper, any treatment processes used at your facility to reduce vector attraction properties of sewage sludge: N/A			
	e.	Describe, on this form or another sheet of paper, any other sewage sludge treatment activities, including blending, not identified in a - d above: <u>N/A</u>			
١.	Prepa of Ve	Preparation of Sewage Sludge Meeting Ceiling and Pollutant Concentrations, Class A Pathogen Requirements and On of Vector Attraction Reduction Options 1-8 (EQ Sludge).			
		rage sludge from your facility does not meet all of these criteria, skip Question 4.) N/A Total dry metric tons per 365-day period of sewage sludge subject to this section that is applied to the land: dry metric tons			
	b.	Is sewage sludge subject to this section placed in bags or other containers for sale or give-away?			

FAC	ILITY N	AME: Lower Jackson River	Regional WWT	P	VPDES PERMIT NUMB	ER:VA0090671
		_Yes _No				
5.	Sale	or Give-Away in a Bag or Othe	r Container for Ar	nlication to th	ne I and	
J.					for sale or give-away prior to land applicat	tion Skin this
		on if sewage sludge is covered in Qu		other container i	or saic or give-away prior to land appricat	ion. Sup this
	a.		•	ewage sludge	placed in a bag or other container at	vour facility
		for sale or give-away for ap				JJ
	b.				that accompany the sewage sludge b	eing sold or
		given away in a bag or othe				Ü
6.	Shipr	nent Off Site for Treatment or l	Blending, N/A			
	(Com	plete this question if sewage sludge f	rom your facility is s	ent to another fa	cility that provides treatment or blending.	This question
					sposal site. Skip this question if the sewage	e sludge is
	covere		wage sludge to more	than one facility	y, attach additional sheets as necessary.)	
	a.	Receiving facility name:				
	b.	Facility contact:				
		Title:				
		Phone: ()				
	C.	Mailing address:				
		Street or P.O. Box:		5 1		
	ı.	City or Town:		_State:		
	d.	metric tons	ob-day period of s	ewage sludge	provided to receiving facility:	dry
				da a facilia da X	/DDCC	1
	e.				PDES permit number as well as the	
		practices:	ai permits mat re	guiate the rece	iving facility's sewage sludge use or	aisposai
		Permit Number:	,	Type of Permi	+•	
		Fermit Number.	•	Type of Perini	<u>l.</u>	
	f.	Does the receiving facility process facility?YesNo	provide additional	treatment to r	educe pathogens in sewage sludge fr	om your
		Which class of pathogen re-	duction is achieved Class B		ge sludge at the receiving facility?	
					ent processes used at the receiving fa	acility to
		reduce pathogens in sewage		or, any a caur	one processes asou at the receiving it	ucinty to
	g.	Does the receiving facility p	provide additional	treatment to r	educe vector attraction characteristic	s of the
		sewage sludge?Yes				
					age sludge at the receiving facility?	
		Option 1 (Minimum 38				
		Option 2 (Anaerobic pro				
		Option 3 (Aerobic proce Option 4 (Specific oxyg				
		Option 5 (Aerobic proce			gested studge)	
		Option 6 (Raise pH to 1				
		Option 7 (75 percent so				
		Option 8 (90 percent so				
		None unknown	ids with thistability	eca sonas)		
			other sheet of pan	er, anv treatm	ent processes used at the receiving fa	acility to
		reduce vector attraction pro			one processes asoa at the receiving to	conty to
	h.		rovide any addition	onal treatment	or blending not identified in f or g al	bove?
		YesNo	_			
		If yes, describe, on this form	or another sheet	of paper, the t	reatment processes not identified in	f or g above:
	i.	If you answered yes to file	or hahova ottock	a converse	information you provide to the recei	tata e m
	4.	11 Jou mismored yes to 1., g	or ir acceve, attacil	a coby or any	miorination you provide to the recei	iving racility

		to comply with the "notice and necessary information" requirement of 9 VAC 25-31-530.G.
	j	Does the receiving facility place sewage sludge from your facility in a bag or other container for sale or give-away for application to the land?YesNo If yes, provide a copy of all labels or notices that accompany the product being sold or given away.
	k.	Will the sewage sludge be transported to the receiving facility in a truck-mounted watertight tank normally used for such purposes? Yes No. If no, provide description and specification on the vehicle used to transport the sewage sludge to the receiving facility. Show the haul route(s) on a location map or briefly describe the haul route below and indicate the days of the week and the times of the day sewage sludge will be transported.
7.		Application of Bulk Sewage Sludge. N/A
		lete Question 7.a if sewage sludge from your facility is applied to the land, unless the sewage sludge is covered in Questions 4, 5 or
		olete Question 7.b, c & d only if you are responsible for land application of sewage sludge.)
	a.	Total dry metric tons per 365-day period of sewage sludge applied to all land application sites:dry
	h	metric tons Do you identify all land application sites in Section C of this application? Very No. 10.
	b.	Do you identify all land application sites in Section C of this application?YesNo If no, submit a copy of the Land Application Plan (LAP) with this application (LAP should be prepared in
	•	accordance with the instructions).
	c.	Are any land application sites located in States other than Virginia?YesNo If yes, describe, on this form or on another sheet of paper, how you notify the permitting authority for the
		States where the land application sites are located. Provide a copy of the notification.
	d.	Attach a copy of any information you provide to the owner or lease holder of the land application sites to
		comply with the "notice and necessary" information requirement of 9 VAC 25-31-530 F and/or H (Examples
		may be obtained in Appendix IV).
8.	Surfac	e Disposal. N/A
0.		lete Question 8 if sewage sludge from your facility is placed on a surface disposal site.)
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on all surface disposal
	4.	sites: dry metric tons
	b.	Do you own or operate all surface disposal sites to which you send sewage sludge for disposal?
		YesNo
		If no, answer questions c - g for each surface disposal site that you do not own or operate. If you send sewage
		sludge to more than one surface disposal site, attach additional pages as necessary.
	c.	Site name or number:
	d.	Contact person:
		Title:
		Phone: ()
	_	Contact is:Site OwnerSite operator
	e.	Mailing address. Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility placed on this surface disposal
		site: dry metric tons
	g.	List, on this form or an attachment, the surface disposal site VPDES permit number as well as the numbers of
		all other federal, state or local permits that regulate the sewage sludge use or disposal practices at the surface
		disposal site:
		Permit Number: <u>Type of Permit:</u>
9.	Incinc	ration. N/A
٠,		ation. N/A ete Ouestion 9 if sewage sludge from your facility is fired in a sewage sludge incinerator)

FACILITY NAME: Lower Jackson River Regional WWTP

__VPDES PERMIT NUMBER:VA0090671

FACII	LITY NA	AME: Lower Jackson River Regional WWTP VPDES PERMIT NUMBER: VA0090671
	a.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in a sewage sludge incinerator: dry metric tons
	b.	Do you own or operate all sewage sludge incinerators in which sewage sludge from your facility is fired? YesNo
		If no, answer questions c - g for each sewage sludge incinerator that you do not own or operate. If you send sewage sludge to more than one sewage sludge incinerator, attach additional pages as necessary.
	c.	Incinerator name or number:
	d.	Contact person:
		Title:
		Phone: ()
	e.	Contact is:Incinerator OwnerIncinerator Operator Mailing address.
	٠.	Street or P.O. Box:
		City or Town: State: Zip:
	f.	Total dry metric tons per 365-day period of sewage sludge from your facility fired in this sewage sludge
		incinerator: dry metric tons
	g.	List on this form or an attachment the numbers of all other federal, state or local permits that regulate the
		firing of sewage sludge at this incinerator:
		Permit Number: Type of Permit:
10.	Dispos	sal in a Municipal Solid Waste Landfill.
		ete Question 10 if sewage sludge from your facility is placed on a municipal solid waste landfill. Provide the following information
	for each	n municipal solid waste landfill on which sewage sludge from your facility is placed. If sewage sludge is placed on more than one
		pal solid waste landfill, attach additional pages as necessary.)
	a.	Landfill name: Amelia Landfill
	b.	Contact person: Brian McClung
		Title: <u>Manager</u> Phone: (804)561-5787
		Contact is:Landfill Owner _X Landfill Operator
	c.	Mailing address.
		Street or P.O. Box: P.O. Box 168
		City or Town: Amelia State: VA Zip: 23083
	d.	Landfill location,
		Street or Route #: 20221 Maplewood Rd
		County: Amelia
		City or Town: Jetersville State: VA Zip: 23083
	e.	Total dry metric tons per 365-day period of sewage sludge placed in this municipal solid waste landfill:
	f.	List, on this form or an attachment, the numbers of all federal, state or local permits that regulate the
	1.	operation of this municipal solid waste landfill:
		Permit Number: Type of Permit:
		540 Non Hazardous Waste
	g.	Does sewage sludge meet applicable requirements in the Virginia Solid Waste Management Regulation, 9
	5.	VAC 20-80-10 et seq., concerning the quality of materials disposed in a municipal solid waste landfill?
		X Yes No
	h.	Does the municipal solid waste landfill comply with all applicable criteria set forth in the Virginia Solid
		Waste Management Regulation, 9 VAC 20-80-10 et seq.? X Yes No
	i.	Will the vehicle bed or other container used to transport sewage sludge to the municipal solid waste landfill
		be watertight and covered? X Yes No
		Show the haul route(s) on a location map or briefly describe the route below and indicate the days of the week
		and time of the day sewage sludge will be transported. I64E, I81S, 26S, 460E, 307E, 360E to Maplewood
		Drive to landfill. Hours M-F 0700-1200

VPDES Permit Application Addendum	VPDES Permit NoVA0090671
 Entity to whom the permit is to be issued: Alleg Who will be legally responsible for the wastewater treamay or may not be the facility or property owner. Provide NAICS Code (Industrial Only) 	tment facilities and compliance with the permit? This
3. Is this facility located within city or town bound	laries? Y/N No
4. Provide the tax map parcel number for the land 032C	where the discharge is located. 04500-00-000-
5. For the facility to be covered by this permit, ho five years due to new construction activities?	
6. What is the design average effluent flow of this For industrial facilities, provide the max. 30-da	
In addition to the design flow or production lev any other discharge flow tiers or production lev If "Yes", please identify the other flow tiers (in M	vels? Y/N Yes
3.5 MGD	
	ons in #5 above for both the flow tiers and the production s during the next five years? Is your facility's design flow
7. Nature of operations generating wastewater:	
_100% of flow from domestic connections/sou	ırces
Number of private residences to be served by the	reatment works:
% of flow from non-domestic connections/so	urces
8. Mode of discharge: XContinuousInt Describe frequency and duration of intermittent or	
9. Identify the characteristics of the receiving stre	am at the point just above the facility's
discharge point:	, , ,
X Permanent stream, never dry _ Intermittent stream, usually flowing, sometime	s dry
Ephemeral stream, wet-weather flow, often dry	
Effluent-dependent stream, usually or always d	
Lake or pond at or below the discharge point	

Other:
10. Approval Date(s): O & M Manual6/11/12, 5/14/14 Sludge/Solids Management Plan _6/11/12, 5/14/14
Have there been any changes in your operations or procedures since the above approval dates?Y/N No
11. Privately Owned Treatment Works If this application is for a privately owned treatment works serving, or designed to serve, 50 or more residences, you must include with your application notification from the State Corporation Commission that you are incorporated in the Commonwealth AND verification from the SCC that you are in compliance with all regulations and relevant orders of the State Corporation Commission. Incorporated also includes Limited Liability Companies (LLCs), Limited Partnerships (LPs) and certificates of authority.
12. Satellite Sewer Systems A satellite sewer system means a sewer system that is owned or operated by one person that discharge to a system that is owned or operated by a different person. Satellite sewer systems depend on a separate person for final wastewater treatment and discharge. List any additional owners with collection systems but no treatment plant discharging to your system. You may use the attached form or any other documentation you may have that contains the same type of information.
13. Consent to receive electronic mail
The Department of Environmental Quality (DEQ) may deliver permits and certifications (this includes permit issuances, reissuances, modifications, revocation and reissuances, terminations and denials) to recipients, including applicants or permittees, by electronically certified mail where the recipients notify DEQ of their consent to receive mail electronically (§ 10.1-1183). Check <i>only one</i> of the following to consent to or decline receipt of electronic mail from DEQ as follows:
X Applicant or permittee agrees to receive by electronic mail the permit that may be issued for the proposed pollutant management activity, and to certify receipt of such electronic mail when requested by the DEQ. Email address: brianw-ess@lumos.net , ghepler@co.alleghany.va.us , jlanford@co.alleghany.va.us
Applicant or permittee declines to receive by electronic mail the permit associated with the permit that may be issued for the proposed pollutant management activity.